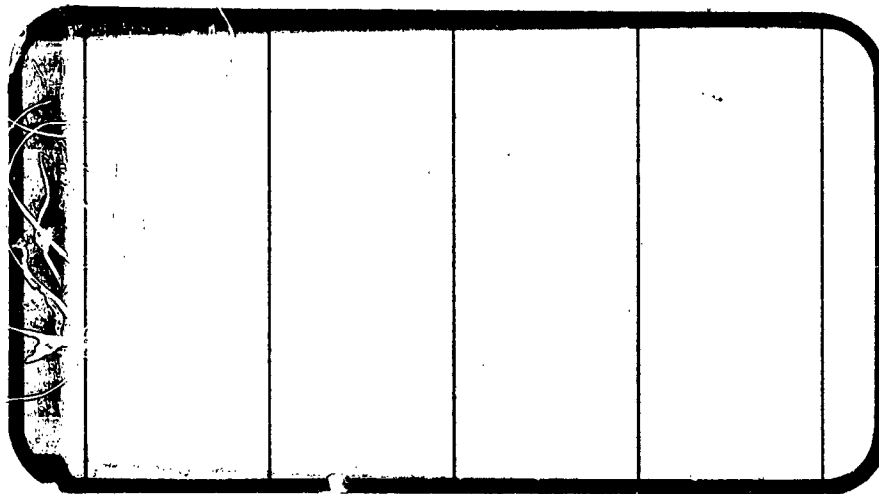


NASA CR-

134402

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**



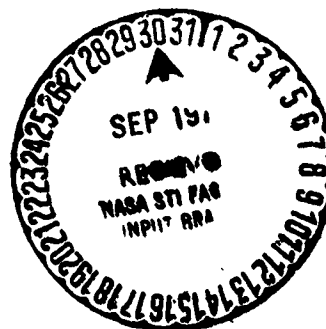
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**AEROTHERMODYNAMIC DATA REPORT**

**JOHNSON SPACE CENTER**

**HOUSTON, TEXAS**

**DATA MANAGEMENT services**

SPACE DIVISION



**CHRYSLER  
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DETERMINATION OF AERODYNAMIC STABILITY AND  
DRAG OF THE TITAN III C SRM DURING ENTRY  
(FA-4)

By

Paul E. Ramsey, NASA/MSFC

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services  
Chrysler Corporation Space Division  
New Orleans, La., 70189

for

Engineering Analysis Division

Johnson Space Center  
National Aeronautics and Space Administration  
Houston, Texas

**WIND TUNNEL TEST SPECIFICS**

Test Number: MSFC TWT 587  
NASA Series No.: FA-4  
Date: December, 1973 and January, 1974  
Occupancy Time: 166 Hours

**FACILITY COORDINATOR:**

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Chrysler Corporation Space Division assumes no responsibility for data presented other than display characteristics.

**DETERMINATION OF AERODYNAMIC STABILITY AND  
DRAG OF THE TITAN III C SRM DURING ENTRY (FA-4)**

**By Paul E. Ramsey, NASA/MSFC**

**ABSTRACT**

An experimental aerodynamic investigation was conducted in the NASA/MSFC 14-inch Trisonic Wind Tunnel during December 1973 and January 1974 on a 0.00736 scale model of the TITAN III C Solid Rocket Motor (SRM). Static stability and drag data were obtained for Mach numbers of 0.6 to 4.96, angles of attack of  $-10^{\circ}$  to  $190^{\circ}$ , and roll angles of 0 to  $360^{\circ}$ .

The resulting data will be used to predict the dynamic motions of the SRM during entry which will then be compared to flight data. This comparison will improve and lend credibility to methods for predicting the entry dynamics of the Space Shuttle Solid Rocket Booster (SRB), which is needed for recovery studies and design of the parachute recovery system.



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Longitudinal Stability Characteristics of the Titan SRM (NBETP)	PHI MACH	(A)	1-96
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### PLOTTED COEFFICIENTS SCHEDULE

(A) CNM, CLMM, CA, XCP/L versus ALPHA——

(B) CYM, CYNM, CBL versus ALPHA

# NOMENCLATURE General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C <sub>p</sub>	CP	pressure coefficient; $(P_1 - P_\infty)/q$
M	MACH	Mach number; $V/a$
p		pressure; N/m <sup>2</sup> , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2 \rho V^2$ , N/m <sup>2</sup> , psf
RN/L	RN/L	unit Reynolds number; per ft
V		velocity; m/sec, ft/sec
$\alpha$	ALPHA	angle of attack, degrees
$\beta$	BETA	angle of sideslip, degrees
$\psi$	PSI	angle of yaw, degrees
$\rho$		mass density; kg/m <sup>3</sup> , slugs/ft <sup>3</sup>

## Reference & C.G. Definitions

A <sub>b</sub>		base area; m <sup>2</sup> , ft <sup>2</sup>
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$l_{REF}$	LREF	reference length or wing mean
c		aerodynamic chord; m, ft
S	SREF	wing area or reference area; m <sup>2</sup> , ft <sup>2</sup>
	MRP	moment reference point

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

#### SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
$\infty$	free stream

#### Missile-Axis System Defined in Terms of Body-Axis

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
$\phi$	PHI	roll angle, i.e., angle between the missile $Y_m$ -axis and the body Y-axis (from a pilot's viewpoint in an airplane, a positive roll angle is a clockwise rotation), degrees
$C_{A_f}$	CAF	forebody axial force coefficient in the body and missile axis system
$C_{A_b}$	CAB	base axial force coefficient (same in both missile and body axis systems)
$C_{A_m}$	CA	total axial force coefficient in the missile axis system, $F_{A_m}/q_{\infty} S_{ref}$
$C_l$		rolling moment coefficient in the body axis system
$C_{l_m}$	CBL	rolling moment coefficient in the missile axis system, $M_{x_m}/q_{\infty} S_{ref} l_{ref}$
$C_m$		pitching moment coefficient in the body axis system
$C_{m_m}$	CLMM	pitching moment coefficient in the missile axis system, $M_{y_m}/q_{\infty} S_{ref} l_{ref}$
$C_N$		normal force coefficient in the body axis system

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>	
$C_{N_m}$	CNM	normal force coefficient in the missile axis system, $F_{N_m}/q_\infty S_{ref}$	
$C_n$		yawing moment coefficient in the body axis system	
$C_{n_m}$	CYNM	yawing moment coefficient in the missile axis system, $M_{Z_m}/q_\infty S_{ref} l_{ref}$	
$C_{p_{b1}}$	CPB1	base pressure coefficient; $\frac{P_{b1}-P_\infty}{q_\infty}$	
$C_Y$		side force coefficient in the body axis system	
$C_{Y_m}$	CYM	side force coefficient in the missile axis system, $F_{Y_m}/q_\infty S_{ref}$	
$X_{cp}/l$	XCP/L	center of pressure location in fraction of body length from nose; $\frac{X_{c.g.}}{l_{body}} - \frac{C_{m_m}}{C_{N_m}} \frac{l_{ref}}{l_{body}}$	
$F_{Y_m}$		side force in the missile axis system, positive in the positive direction of $Y_m$	
$F_{A_m}$		total axial force in the missile axis system, positive in the negative direction of $X_m$	1b
$F_{N_m}$		normal force in the missile axis system, positive in the negative direction of $Z_m$	1b
$M_{X_m}$		rolling moment in the missile axis system, i.e., moment about the $X_m$ -axis (a positive rolling moment tends to rotate the positive $Y_m$ -axis toward the positive $Z_m$ -axis)	in.-1b
$M_{Y_m}$		pitching moment in the missile axis system, i.e., moment about the $Y_m$ -axis (a positive pitching moment tends to rotate the positive $Z_m$ -axis toward the positive $X_m$ -axis)	in.-1b
$M_{Z_m}$		yawing moment in the missile axis system, i.e., moment about the $Z_m$ -axis (a positive yawing moment tends to rotate the positive $X_m$ -axis toward the positive $Y_m$ -axis)	in.-1b

## CONFIGURATIONS INVESTIGATED

A 0.00736 scale model of the Titan III C Solid Rocket Motor was investigated. The model consisted of the basic SRM configuration plus all protuberances. Model component nomenclature is defined as:

- N SRM 17° half angle spherically blunted nose cone
- B 122.25-inch diameter SRM body
- E base with engine shroud and nozzle
- T 42-inch diameter TVC tank
- P protuberances; core attach arms, ground support arm fairings, and fore & aft staging rockets.

Table III A describes the Mach numbers and vehicle roll angles at which configuration NBETP was tested. Table IV contains the dimensional data for each of the components defined above.

## MODEL DESCRIPTION AND TEST HARDWARE

The model geometry (0.00736-scale) is shown in figure 2, and consists of a blunted 17° half angle nose cone, a cylindrical body, engine shroud, engine nozzle, TVC tank, and protuberances.

The test model (MSFC 459) was designed to be used with the MSFC 14-inch TWT double knuckle sting system. When the included angle between the model and tunnel center lines was small ( $\alpha = 0 - 50^\circ$  and  $130^\circ - 180^\circ$ ) the model was conventionally end mounted on balance adapter 113, and for high angles ( $\alpha = 50^\circ - 130^\circ$ ) the model was top or side mounted on adapter 118 using the forward hole pattern. Since the nose and base sections were interchangeable, testing from 0 to 90° angles of attack (with the nose facing upstream) and 90° to 180° (with the nose facing aft) was accomplished



with the same sting and balance setup. The base section and aft facing nose ( $\alpha = 90^\circ - 180^\circ$ ) have a through hole to accommodate the sting.

An aft body section immediately forward of the base section was removable to facilitate the installation of the top mounted sting adapter. One of the body sections contains a slot to clear the strut. This slot is omitted in the alternate body section used when the model was aft sting mounted. The resulting total number of model parts; excluding the balance, balance model adapter, and sting adapter, was 9: two noses (one with through hole), two bodies (one with sting adapter slot), two aft body sections (one with sting adapter slot), one base section, and the TVC tank. The protuberances were attached to the nose and base sections and were rotated relative to the body to simulate model roll angles. The TVC tank was attached to the body with screws at various circumferential locations to correspond to the roll condition being tested.

Along with the balance adapters 113 and 118, sting 3 and sting adapters 1 and 3 were utilized. The angle-of-attack ranges, sting arrangements, and adapters are summarized in Table I. Figures 3, 4, and 5 present sketches of the balance and sting adapters.

Balance number 239 was used for the Titan SRM test.

Two base pressure measurements were made and were "teed" together. The base area and base pressure tube locations are indicated in figure 6. The base pressure tubes were rotated around the sting to maintain the same location relative to the model. Base pressures were measured only for the end mounted sting setup.

The model and sting combinations were designed to keep the model out of the tunnel boundary layer and centered as close as practical in the test section. The model's center section remained fixed with respect to the balance center; however, when the nose and base were interchanged, the distance from the nose to the balance center changed slightly. Typical model/sting/balance setups for the entire alpha range are presented in figure 7. Photographs of the tunnel installation over the entire alpha range are presented in figures 9 through 12.

Because testing subsonically was conducted at subcritical Reynolds numbers, 120 size grit was applied over the entire model for the complete test.

The tunnel test conditions are presented in Table II for the Mach numbers desired. Table IV consists of the model component descriptor sheets.

#### DATA REDUCTION

All model forces and moments were resolved in the missile axis system and presented in the form of nondimensional coefficients. When the model was reversed on the balance for angles from 90 to 180 degrees (nose and base section interchanged), the axial force, side force, pitching moment, and rolling moment were changed in sign to be consistent in sign convention with the other data.

Reference dimensions utilized in the data reduction consisted of:

<u>PARAMETER</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Reference Area, $S_{ref}$	11,734 in. <sup>2</sup>	0.636 in. <sup>2</sup>
Reference Length, $l_{ref}$	122.25 in.	0.900 in.
Reference Span, $b_{ref}$	122.25 in.	0.900 in.
Balance Moment Center, BMC	-	4.000 in.
(Measured from nose on-body center line)		
Moment Reference Point		
$X_{MRP}$ (From Nose)*	629.39 in.	4.633 in.
$Y_{MRP}$	0	0
$Z_{MRP}$	0	0
Base Area, $A_b$	11,734 in. <sup>2</sup>	0.636 in. <sup>2</sup>

\*MRP is 65.15%  $l_B$  aft of nose, where  $l_B = 7.111$  in.

#### TEST FACILITY DESCRIPTION

The Marshall Space Flight Center 14" x 14" Trisonic Wind Tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from .2 to 5.85 is covered by using two interchangeable test sections. The transonic section permits testing at Mach 0.20 through 2.50 and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between .2 and .9 are obtained by using a controllable diffuser. The range from .95 to 1.3 is achieved through the use of plenum suction and perforated

walls. Mach numbers of 1.44, 1.93 and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks are tilted and translated automatically to produce any desired Mach number in .25 increments.

Air is supplied to a 6000 cubic foot storage tank at approximately -40°F dew point and 500 psi. The compressor is a three-stage reciprocating unit driven by a 1500 hp motor.

Tunnel flow is established and controlled with a servo-actuated gate valve. The controlled air flows through the valve diffuser into the stilling chamber and heat exchanger where the air temperature can be controlled from ambient to approximately 180°F. The air then passes through the test section which contains the nozzle blocks and test region.

Downstream of the test section is a hydraulically controlled pitch sector that provides a total angle of attack range of 20° (±10°). Sting offsets are available for obtaining various maximum angles of attack up to 90°.

TABLE I. ALPHA SCHEDULE AND STING COMBINATION NOMENCLATURE

ALPHA SCHEDULE	ALPHA RANGE**	NOMINAL PREBENT ANGLE, DEG.	STING NUMBER	STING ADAPTER		BALANCE ADAPTER	
				NO.	HOLE	NO.	HOLE
A	-10° - 10°	0	3	1	53	113	1
B	10° - 30°	20	3	1	51	113	3
C	30° - 50°	40	3	1	54	113	4
D	50° - 70°	60	3	3	63	118	A-3
E	70° - 90°	80	3	3	61	118	A-2
*F	90° - 110°	80	3	3	61	118	A-2
*G	110° - 130°	60	3	3	63	118	A-3
*H	130° - 150°	40	3	1	54	113	4
*I	150° - 170°	20	3	1	51	113	3
*J	170° - 190°	0	3	1	53	113	1

\*Model nose and base sections are interchanged for these setups.

\*\*Alpha ranges are in 2° increments.

## TABLE II

[illegible]

TABLE I.I.A.

TEST:MSFC TWT587 (FA4)

## DATA SET/RUN NUMBER COLLATION SUMMARY

**DATE:**

DATA SET IDENTIFIER		CONFIGURATION	SCHD. PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										TEST RUN NUMBERS									
$\alpha$	$\beta$		$\phi$	$\theta$		0.60	0.70	1.20	1.96	3.12	4.96														
R97001		NBETP	A	0		6	133%	134%	135%	128%	001%	002%													
002			B			6	132%	131%	130%	129%	004%	003%													
003			C			2	X	X	136%	X	005%	X													
004			D			0	X	X	X	X	X	X													
005			E			0	X	X	X	X	X	X													
006			F			6	243%	244%	245%	263%	264%	265%													
007			G			6	242%	241%	240%	262%	267%	266%													
008			H			2	X	X	109%	X	034%	X													
009			I			6	106%	107%	108%	110%	035%	036%													
010			J	Y		6	105%	104%	103%	111%	038%	037%													
011			A	3375		2	X	X	138%	X	007%	X													
012			B			2	X	X	137%	X	006%	X													
013			C			0	X	X	X	X	X	X													
014			D			2	X	X	176%	X	315%	X													
015			E			2	X	X	177%	X	314%	X													
016			F			2	X	X	238%	X	269%	X													
017			G			2	X	X	239%	X	268%	X													
Y 018		Y	H	Y		0	X	X	X	X	X	X													

1

7

13

19

25

31

37

43

49

55

61

67

73

79

EXP

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CYR

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CAB

CAB

XCP

XCP

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12

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$\alpha$  OR  $\beta$

SCHEDULES

COEFFICIENTS

$F = 90.70 \pm 11.0^\circ$ ;  $G = 110.70 \pm 13.0^\circ$ ;  $H = 130.70 \pm 15.0^\circ$ ;  $I = 150.70 \pm 17.0^\circ$ ;  $J = 170.70 \pm 19.0^\circ$

EXP. DATA:

$C.F. = 2$ ;  $A = -10.70 \pm 1.0^\circ$ ;  $B = 10.70 \pm 3.0^\circ$ ;  $C = 30.70 \pm 5.0^\circ$ ;  $D = 50.70 \pm 7.0^\circ$ ;  $E = 70.70 \pm 9.0^\circ$

MSFC - Form 203-3 (Rev. May 1973)

## DATA SET/RUN NUMBER COLLATION SUMMARY

TEST: 195FC 767587 (FN4)

**DATE:**

DATA SET IDENTIFIER		CONFIGURATION	SCHD.		PARAMETERS/VALUES	NO. OF RUNS	MACH NUMBERS ( OR ALTERNATE INDEPENDENT VARIABLE )								TEST RUN NUMBERS	
			A	B				0.60	0.90	1.20	1.96	3.48	4.96			
R97019		NBETP	I	O	337.5		2	X	X	101/0	X	X	X			
020			J		Y		2	X	X	102/0	X	X	X			
021			A		315		6	141/0	140/0	139/0	127/0	008/0	009/0			
022			B				6	142/0	143/1	144/0	126/0	011/0	010/0			
023			C				2	X	X	145/0	X	X	X			
024			D				6	181/0	182/0	183/0	249/0	310/0	311/0			
025			E				6	180/0	179/0	178/0	248/0	313/0	312/0			
026			F				6	235/0	236/0	237/0	269/0	270/0	271/0			
027			G				6	234/0	233/0	232/0	261/0	273/0	272/0			
028			H				2	X	X	100/0	X	X	X			
029			I				6	097/0	098/0	099/0	113/0	041/0	042/0			
030			J		Y		6	096/0	095/0	094/0	112/0	044/0	043/0			
031			A		322.5		2	X	X	147/0	X	X	X			
032			B				2	X	X	146/0	X	X	X			
033			C				0	X	X		X	X	X			
034			D				2	X	X	184/0	X	X	X			
035			E				2	X	X	185/0	X	X	X			
036		Y	F	Y	Y		2	X	X	230/0	X	X	X			

### COEFFICIENTS

**$\alpha$  OR  $\beta$**   
**SCHEDULES**

MSFC - Form 263-2 (Rev. May 1972)

**REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR**



TABLE III.A. (Continued)

TEST :MSFC TW7507(FH4)										DATE :																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS ( OR ALTERNATE INDEPENDENT VARIABLE )																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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R07037	NBETP	G	O	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

MSFC - Form 283-2 (Rev. May 1973)

TEST:MSFC TWT587 (FA4)

## DATA SET/RUN NUMBER COLLATION SUMMARY

**DATE:**

[illegible]

### COEFFICIENTS

**α OR β  
SCHEDULES**

NOVAR (1)	ICVAR (2)	NOV
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
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38	38	38
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43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
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52	52	52
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54	54	54
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57	57	57
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59	59	59
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62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
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82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

TEST:MSFC TWT 537 (FAM)

**TABLE III.A. (Continued)**

# DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

MSFC - Form 263-2 (Rev. May 1973)

**TABLE III.A. (Continued)**

TEST:MSFC TW7 5:87(FAH)

# DATA SET/RUN NUMBER COLLATION SUMMARY

**DATE:**

**TE INDEPENDENT VARIABLE I**

[illegible]

### COEFFICIENTS

6005

## SCHEMES

USC- Form 203-2 (Rev. May 1973)

TABLE III.B.

COMBINED DATA SET LISTING

COMBINED DATA SET	INDIVIDUAL DATA SETS	PHI
R97A01	R97001 R97002 R97003	0°
R97A02	R97006 R97007 R97008 R97009 R97010	0°
R97A03	R97011 R97012 R97014 R97015	337.5°
R97A04	R97016 R97017 R97019 R97020	337.5°
R97A05	R97021 R97022 R97023 R97024 R97025	315°
R97A06	R97026 R97027 R97028 R97029 R97030	315°
R97A07	R97031 R97032 R97034 R97035	292.5°
R97A08	R97036 R97037 R97039 R97040	292.5°

TABLE III.B. (Continued)

COMBINED DATA SET	INDIVIDUAL DATA SETS	PHI
R97A09	R97041 R97042 R97043 R97044 R97045	270°
R97A10	R97046 R97047 R97048 R97049 R97050	270°
R97A11	R97051 R97052 R97054 R97055	247.5°
R97A12	R97056 R97057 R97059 R97060	247.5°
R97A13	R97061 R97062 R97063 R97064 R97065	225°
R97A14	R97066 R97067 R97068 R97069 R97070	225°
R97A15	R97071 R97072 R97074 R97075	202.5°
R97A16	R97076 R97077 R97079 R97080	202.5°

TABLE III.B. (Concluded)

COMBINED DATA SET	INDIVIDUAL DATA SETS	PHI
R97A17	R97081 R97082 R97083 R97084 R97085	180°
R97A18	R97086 R97087 R97088 R97089 R97090	180°
R97A19	R97096 R97097 R97098 R97099 R97100	135°
R97A20	R97106 R97107 R97108 R97109 R97110	90°
R97A21	R97116 R97117 R97118 R97119 R97120	45°

TABLE IV. MODEL DIMENSIONAL DATA

MODEL COMPONENT: NOSE - N

GENERAL DESCRIPTION: 122.25 inch diam. Titan IIIC SRM nose, 17° half angle  
cone with 23.38 inch radius spherical nose cap. (nose cut short for sting  
when model reversed for 90° to 190°  $\alpha$  range).

Scale = 0.007361

DRAWING NUMBER: MSFC 80M32624

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>140.04 in.</u>	<u>1.031 in.</u>	<u>          </u>
Max. Width	<u>122.25 in.</u>	<u>0.900 in.</u>	<u>          </u>
Max. Depth	<u>122.25 in.</u>	<u>0.900 in.</u>	<u>          </u>
Fineness Ratio	<u>1.045</u>	<u>1.045</u>	<u>          </u>
Area			
Max. Cross-Sectional	<u>11.734 in.<sup>2</sup></u>	<u>0.636 in.<sup>2</sup></u>	<u>          </u>
Planform	<u>          </u>	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>	<u>          </u>
Base	<u>11.734 in.<sup>2</sup></u>	<u>0.636 in.<sup>2</sup></u>	<u>          </u>



TABLE IV. (Continued)

MODEL COMPONENT: BODY - B

GENERAL DESCRIPTION: 122.25 inch diameter Titan IIIC SRM body. (contains a removable aft section to facilitate installation of top mounted sting adapter 118 for  $\alpha$ 's  $90^\circ$  to  $120^\circ$ ).

Scale = 0.007361

DRAWING NUMBER: MSFC 80M42653, 80M32621, 80M32624, and 80M42655

DIMENSIONS:	THEORETICAL		ACTUAL MEASURED
	FULL-SCALE	MODEL SCALE	MODEL SCALE
Length -	<u>794.2 in.</u>	<u>5.845 in.</u>	<u>          </u>
Max. Width	<u>122.25 in.</u>	<u>0.900 in.</u>	<u>          </u>
Max. Depth	<u>122.25 in.</u>	<u>0.900 in.</u>	<u>          </u>
Fineness Ratio	<u>6.500</u>	<u>6.500</u>	<u>          </u>
Area			
Max. Cross-Sectional	<u>11.734 in.<sup>2</sup></u>	<u>0.636 in.<sup>2</sup></u>	<u>          </u>
Planform	<u>          </u>	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>	<u>          </u>
Base	<u>11.734 in.<sup>2</sup></u>	<u>0.636 in.<sup>2</sup></u>	<u>          </u>

TABLE IV. (Continued)

MODEL COMPONENT: BASE - E

GENERAL DESCRIPTION: 122.25 inch diameter SRM base with engine shroud and  
nozzle.

Scale = 0.007361

DRAWING NUMBER: MSFC 80M42655

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>81.00 in.</u>	<u>0.595 in.</u>	<u>          </u>
Max. Width	<u>122.25 in.</u>	<u>0.900 in.</u>	<u>          </u>
Max. Depth	<u>122.25 in.</u>	<u>0.900 in.</u>	<u>          </u>
Fineness Ratio	<u>.661</u>	<u>.661</u>	<u>          </u>
Area			
Max. Cross-Sectional	<u>11,734 in.<sup>2</sup></u>	<u>.636 in.<sup>2</sup></u>	<u>          </u>
Planform	<u>          </u>	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>	<u>          </u>
Base	<u>11,734 in.<sup>2</sup></u>	<u>.636 in.</u>	<u>          </u>

TABLE IV. (CONTINUED)

MODEL COMPONENT: TVC TANK - TGENERAL DESCRIPTION: 42 inch diameter cylindrical TVC tank with a 17° half angle, spherically blunted conical nose and feed line to engine shroud.Scale = 0.007361DRAWING NUMBER: MSFC 80M32623

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>336.50 in.</u>	<u>2.472 in.</u>	<u>          </u>
Max. Width	<u>42.00 in.</u>	<u>0.306 in.</u>	<u>          </u>
Max. Depth	<u>42.00 in.</u>	<u>0.306 in.</u>	<u>          </u>
Fineness Ratio	<u>8.09</u>	<u>8.09</u>	<u>          </u>
Area			
Max. Cross-Sectional	<u>1384.74 in.<sup>2</sup></u>	<u>0.0735 in.<sup>2</sup></u>	<u>          </u>
Planform	<u>          </u>	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>	<u>          </u>
Base	<u>1384.74 in.<sup>2</sup></u>	<u>0.0735 in.<sup>2</sup></u>	<u>          </u>

TABLE IV. (Concluded)

MODEL COMPONENT: Protuberances - PGENERAL DESCRIPTION: Fore and aft core attach arms, ground support arm  
fairings, and nose and tail staging rockets.Scale = 0.007361DRAWING NUMBER: MSFC 80M42655, 80M32624

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	_____	_____	<u>See Figures</u>
Max. Width	_____	_____	_____
Max. Depth	_____	_____	_____
Fineness Ratio	_____	_____	_____
Area			
Max. Cross-Sectional	_____	_____	_____
Planform	_____	_____	_____
Wetted	_____	_____	_____
Base	_____	_____	_____

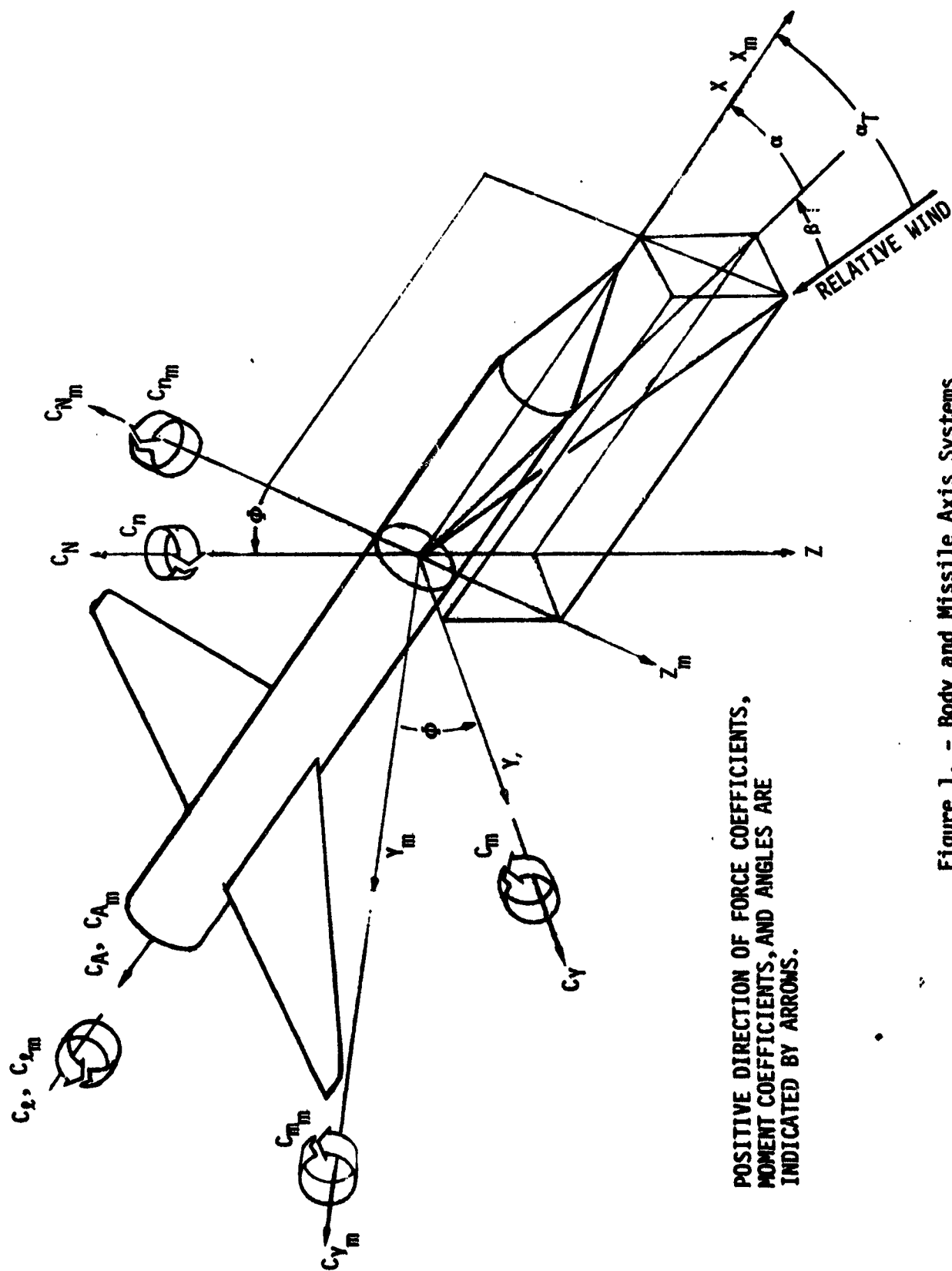
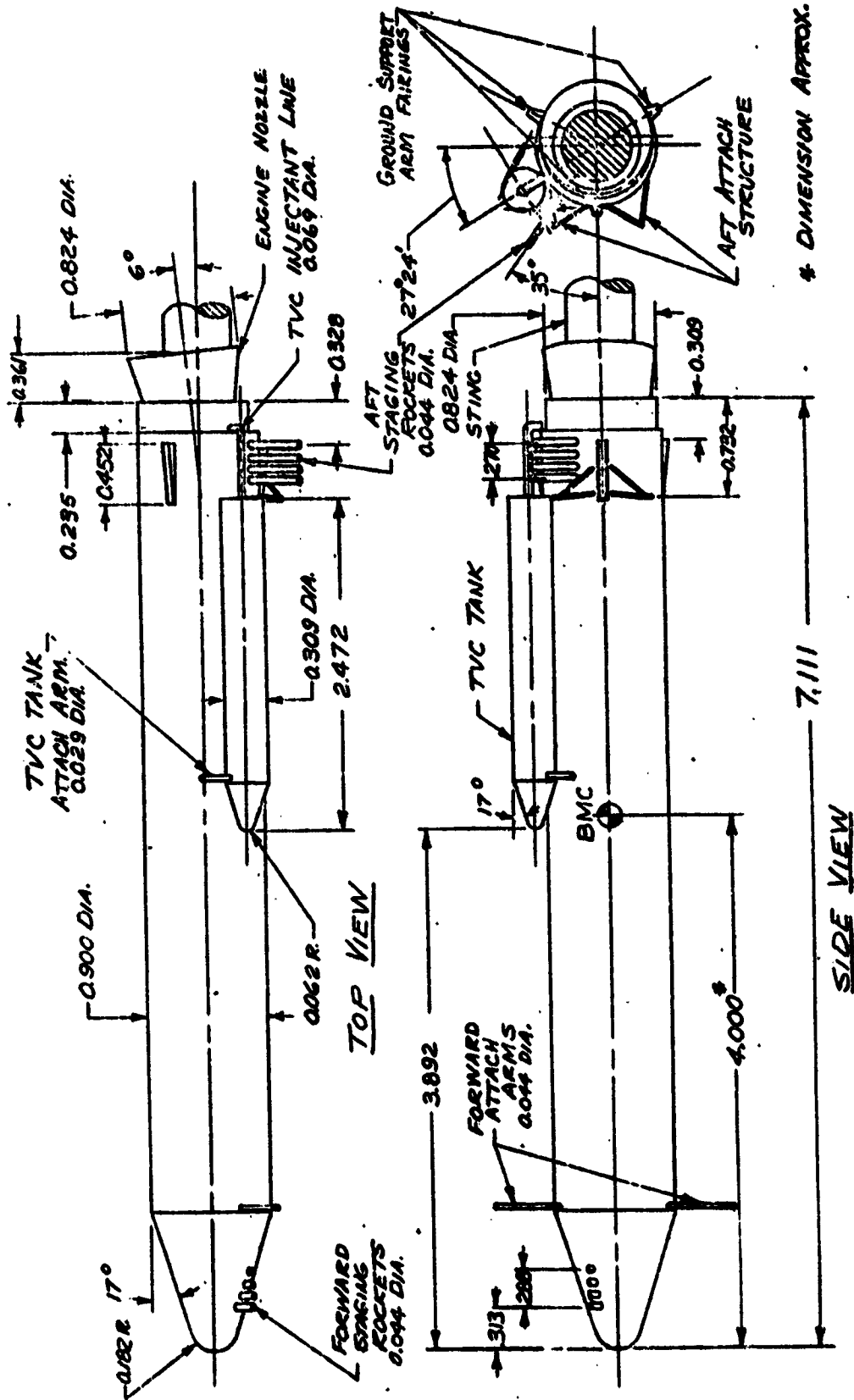


Figure 1. - Body and Missile Axis Systems

**REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR**



**FIGURE 2. - MAJOR DIMENSIONS OF TITAN III C SRM MODEL**

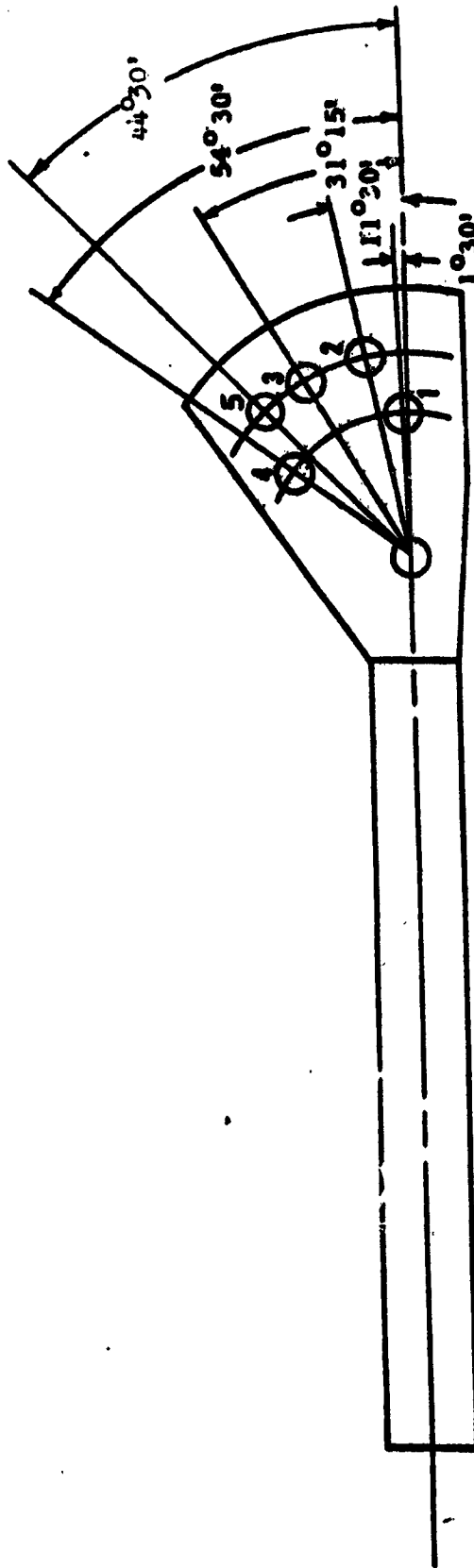
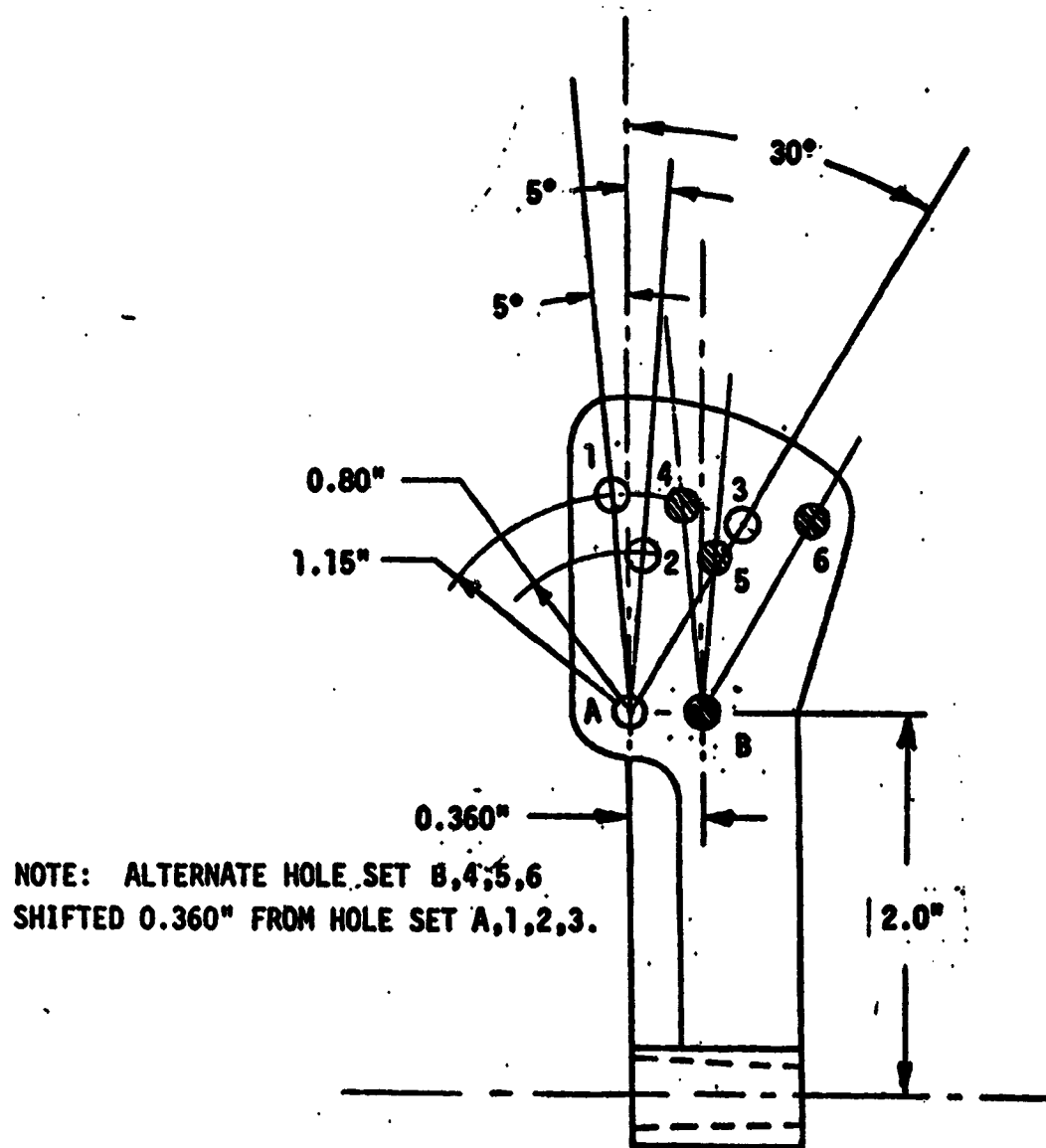


FIGURE 3. - BALANCE ADAPTER 113 (FROM NSFC DWG. NO. 80M42541)

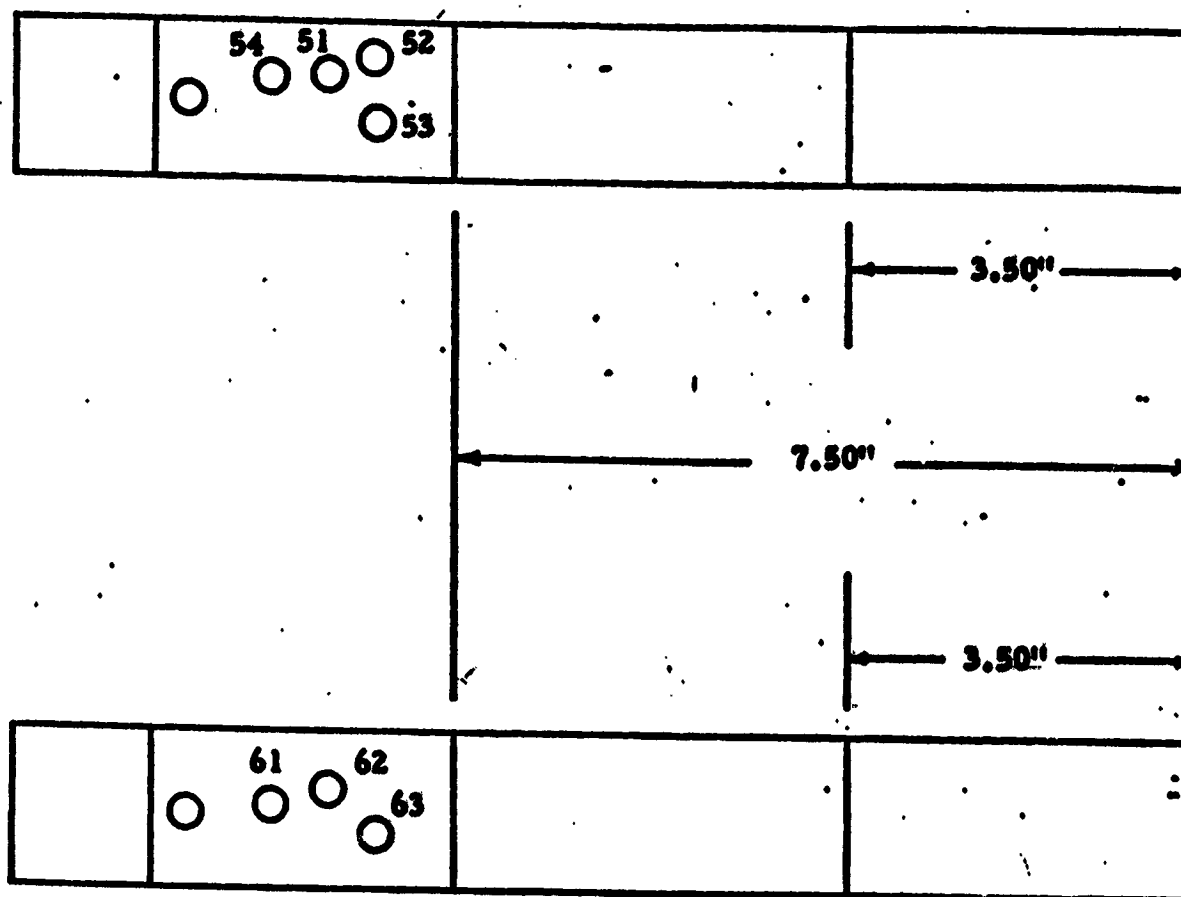


Holes A-2 and B-5 Radius = 0.80"  
Holes A-1, 3 and B-4, 6 Radius = 1.15"

FIGURE 4. - BALANCE ADAPTER 118 (FROM MSFC DWG. 80M42582)



### Sting Adapter 1



### Sting Adapter 3

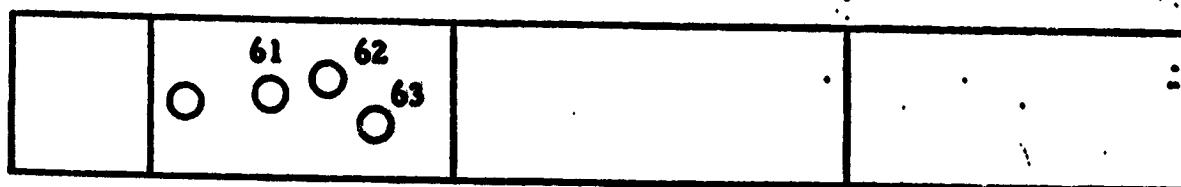
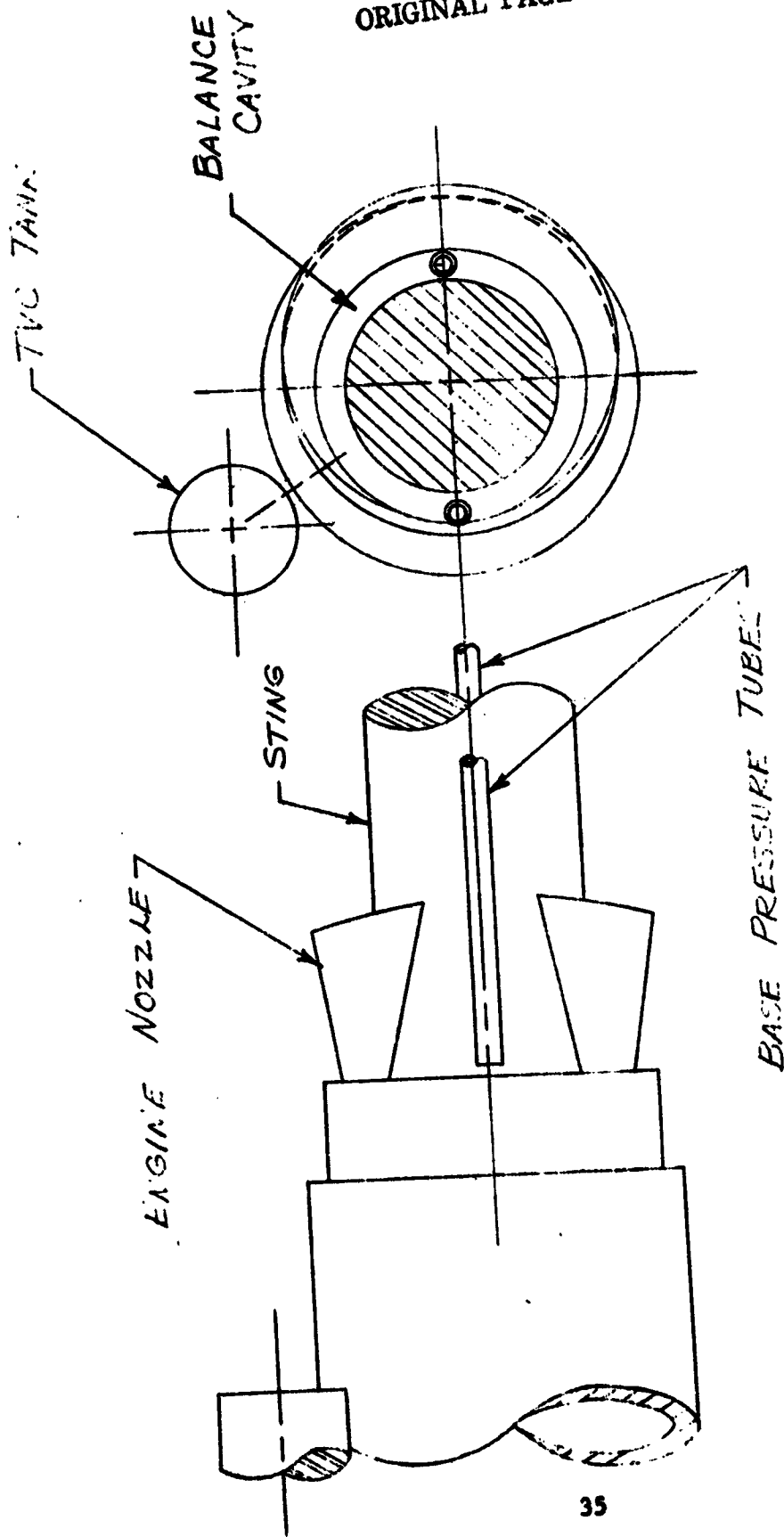


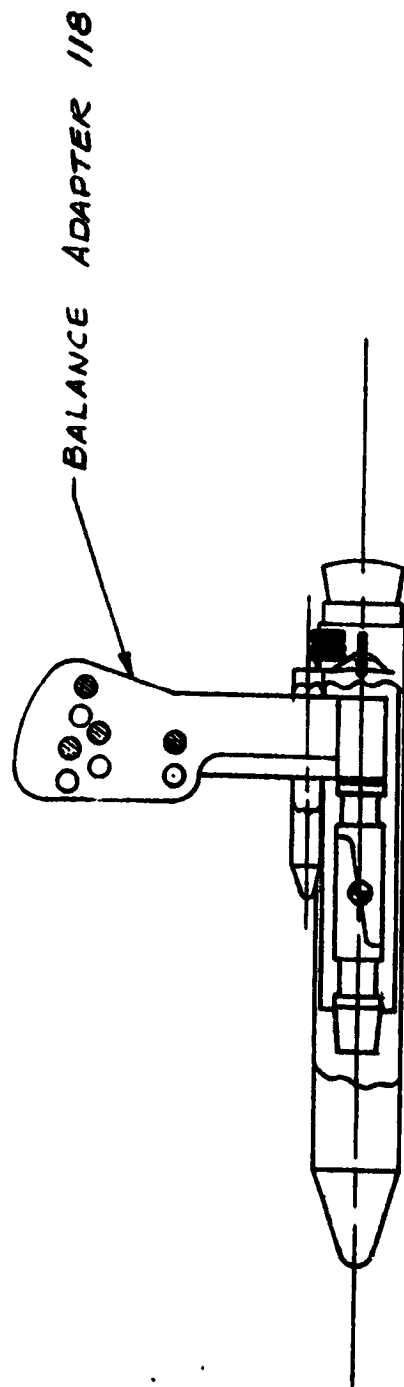
FIGURE 5. - STING ADAPTERS

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

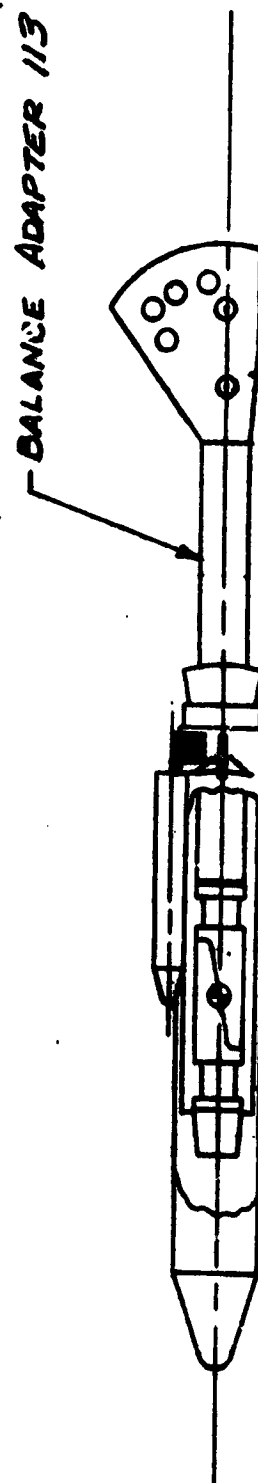


NOTE - TUBE LOCATION  
PATTERN ROLLED  
WITH MODEL

FIGURE 6. - BASE PRESSURE TUBE LOCATIONS FOR MODEL ROLL  
OF ZERO DEGREES

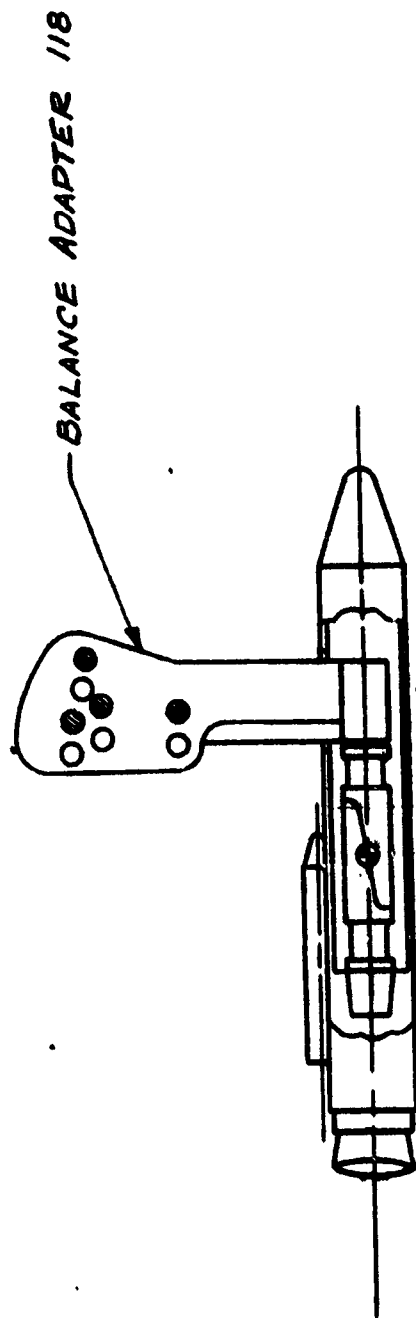


$\alpha$  RANGE =  $50^\circ$  TO  $90^\circ$

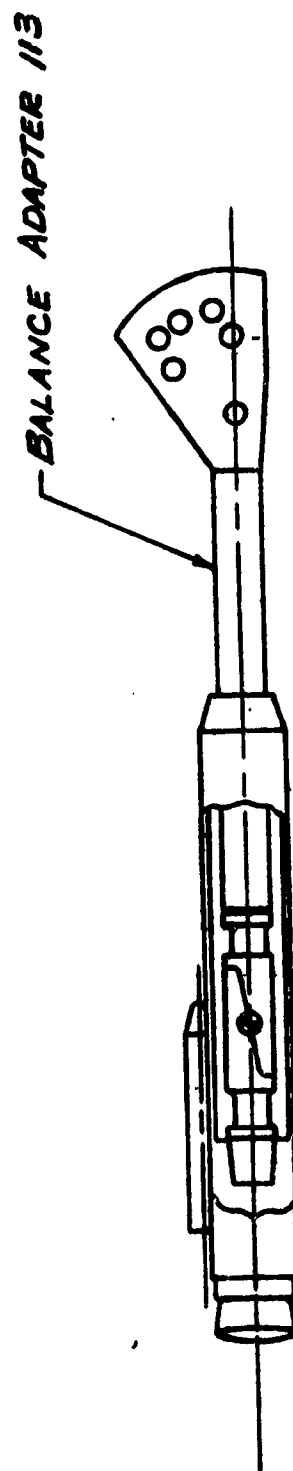


$\alpha$  RANGE =  $-10^\circ$  TO  $50^\circ$

FIGURE 7. -- MOUNTING ARRANGEMENTS FOR ANGLE OF ATTACK -  $10^\circ$  TO  $190^\circ$



$\alpha$  RANGE = 90° TO 130°



$\alpha$  RANGE = 130° TO 190°

FIGURE 7. - (Concluded)

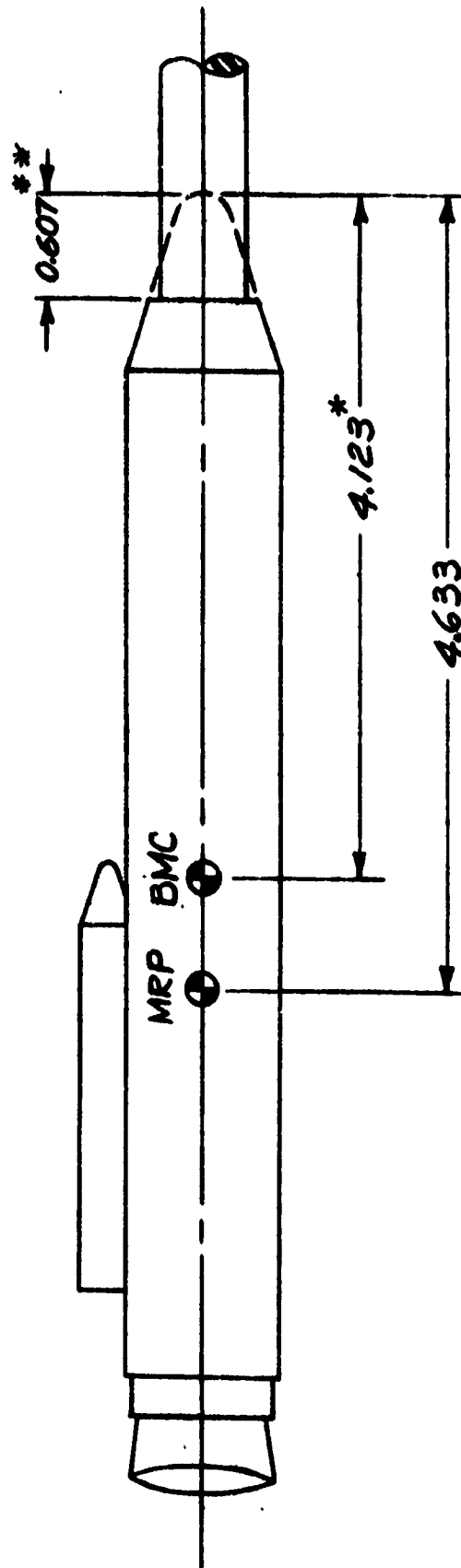
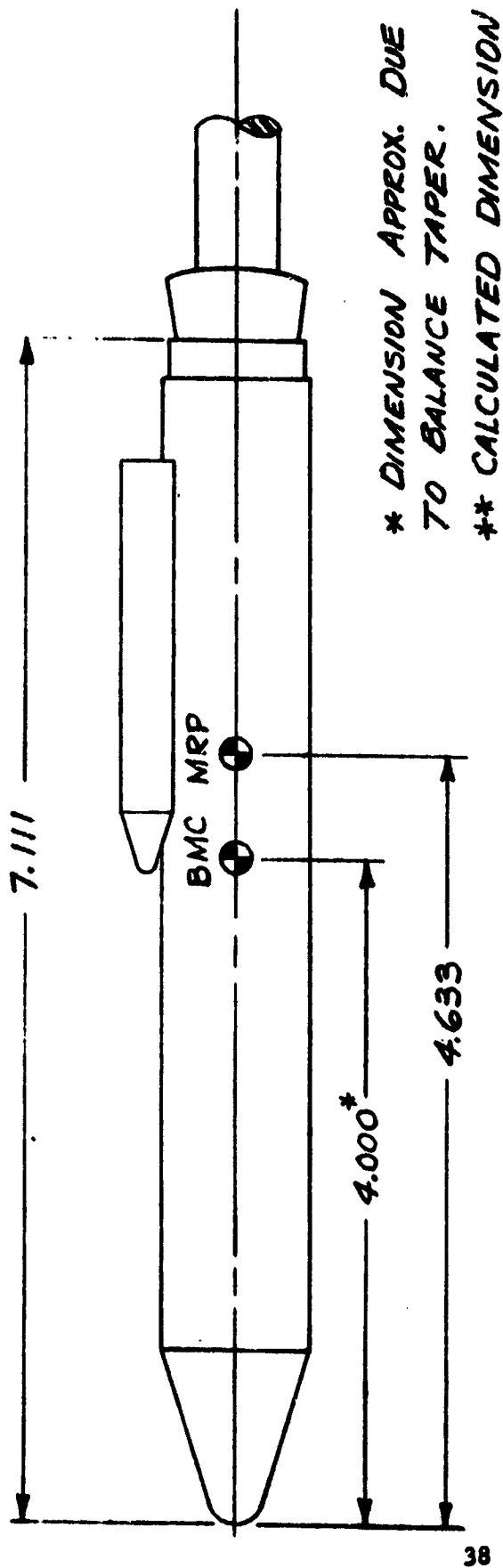


FIGURE 8. - BALANCE MOMENT CENTER AND MOMENT REFERENCE POINT LOCATION

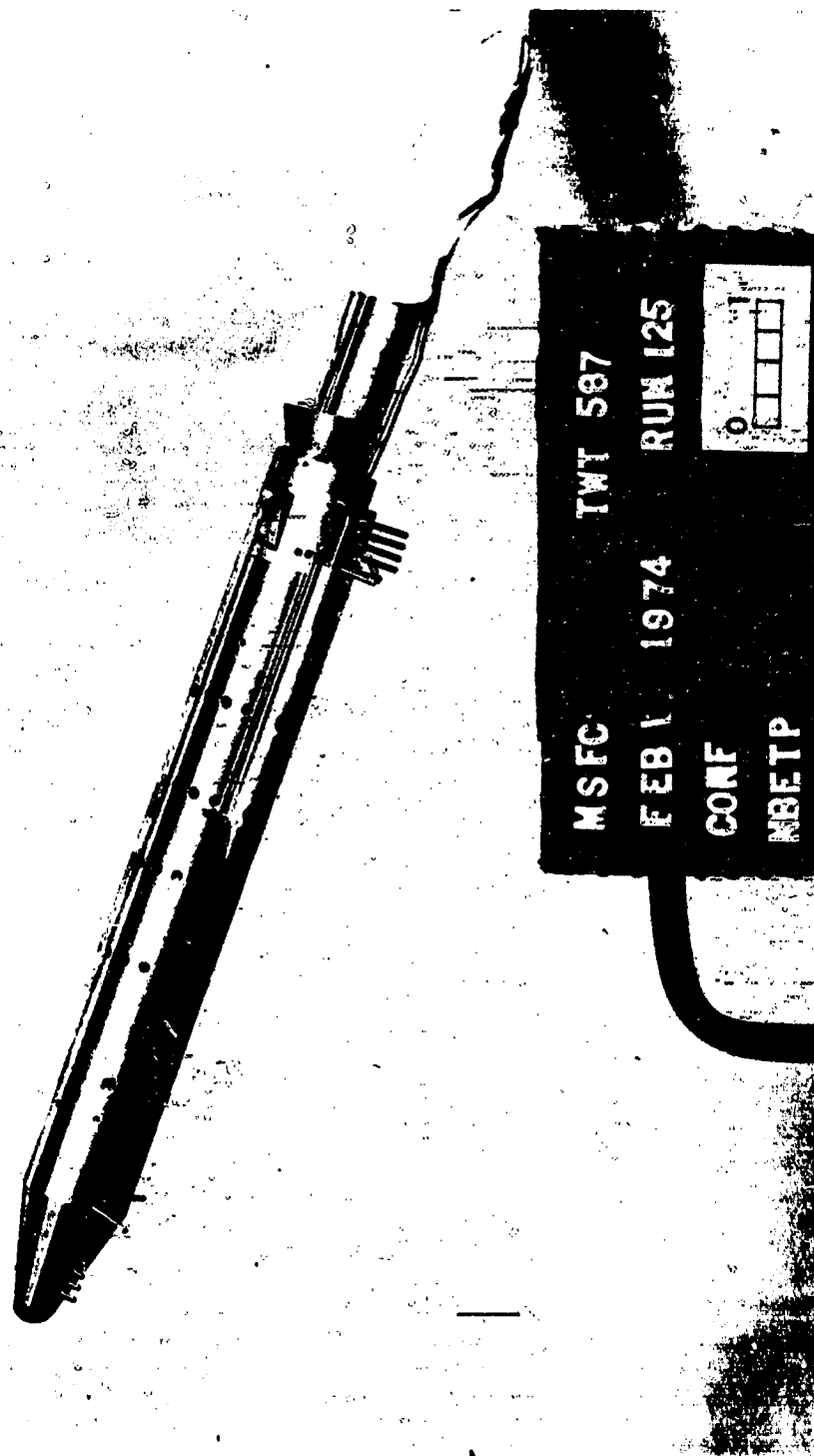


FIGURE 9. PHOTOGRAPH OF MODEL/STING CONFIGURATION USED FOR ANGLE OF ATTACK RANGE OF  $-10^{\circ}$  TO  $50^{\circ}$

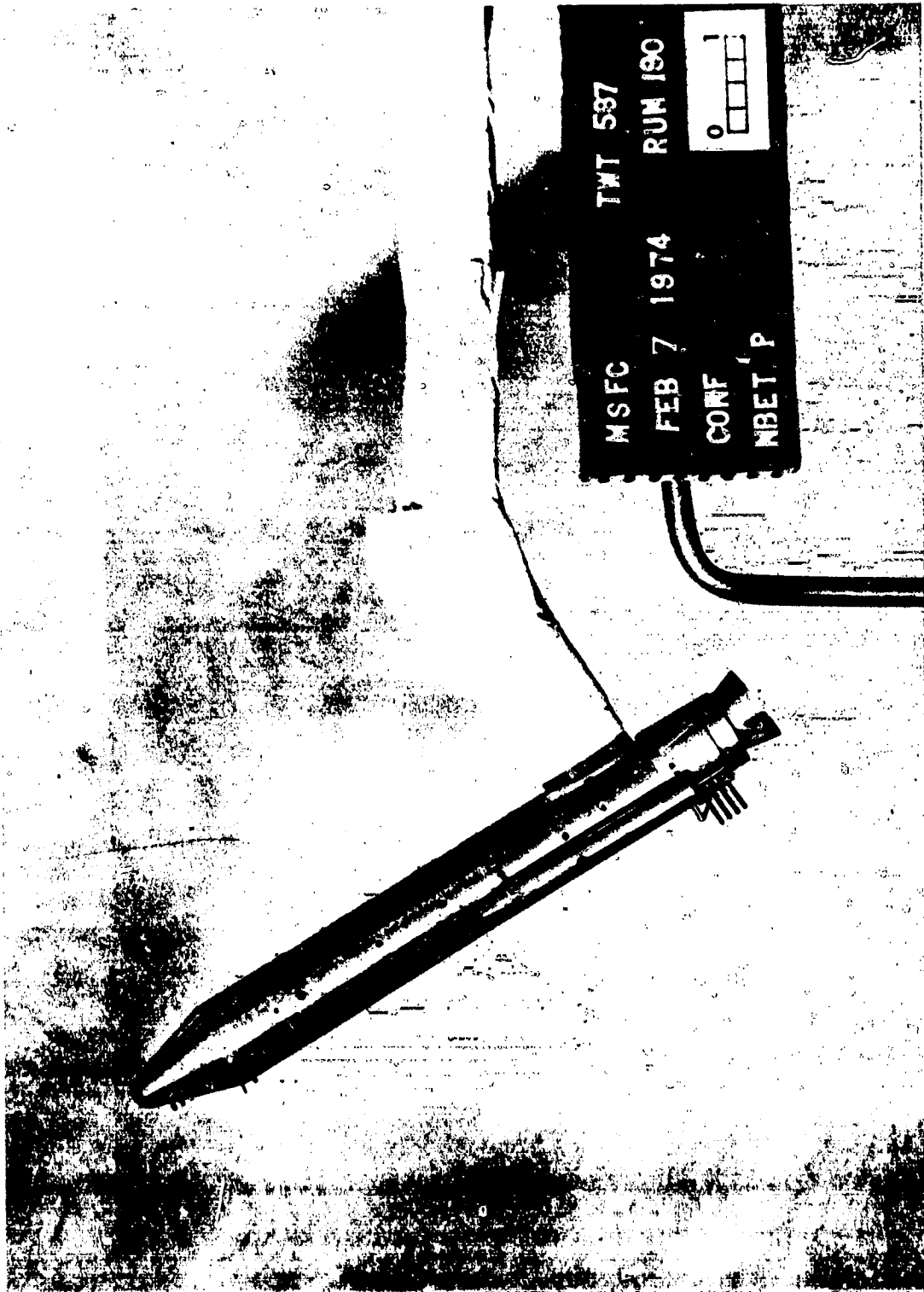


FIGURE 10. PHOTOGRAPH OF MODEL/STING CONFIGURATION USED FOR ANGLE OF ATTACK RANGE OF 50° TO 90°

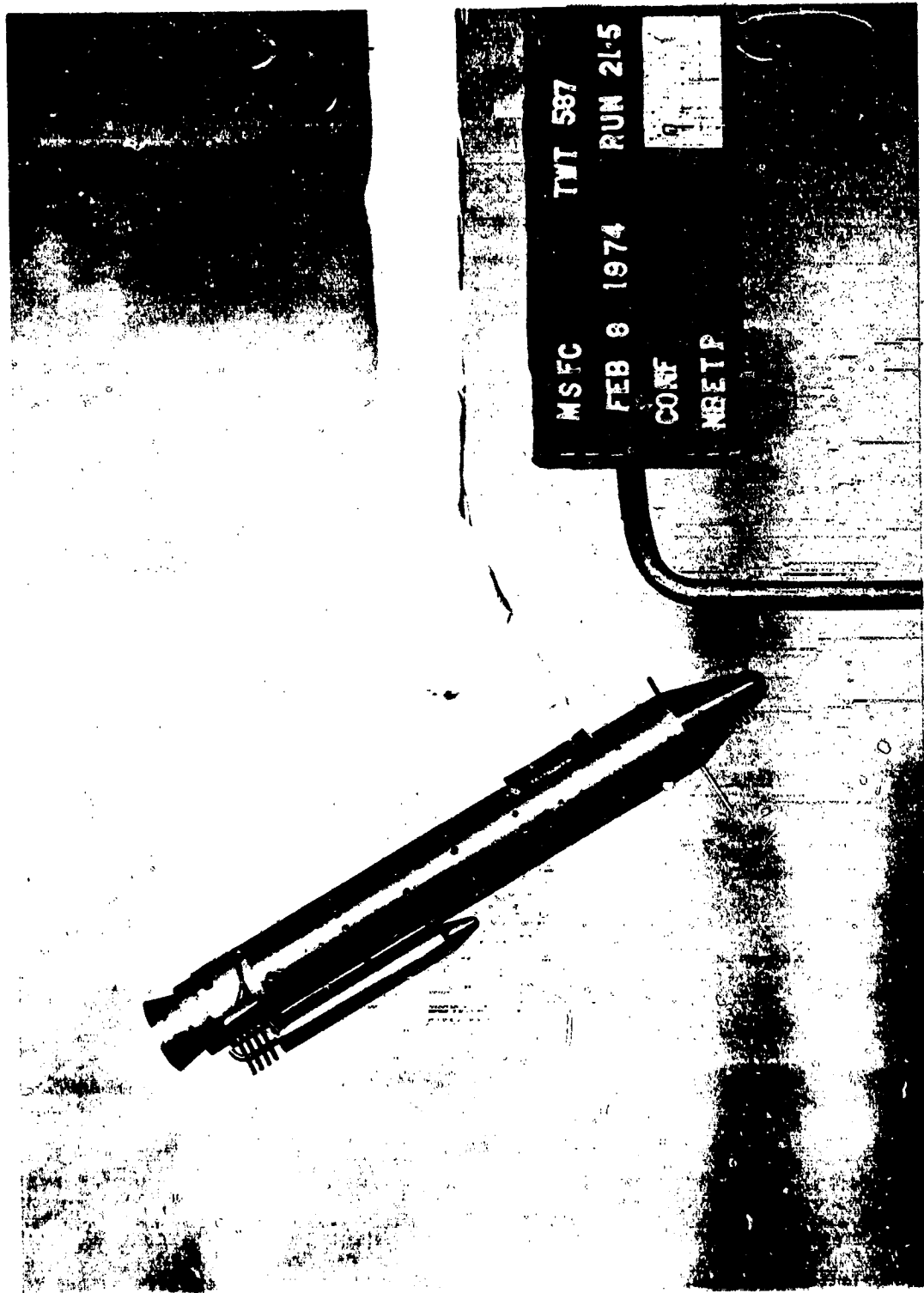


FIGURE 11. PHOTOGRAPH OF MOTION PICTURE CAMERA USED FOR ANGLE OF ATTACK RANGE OF 90° TO 130°



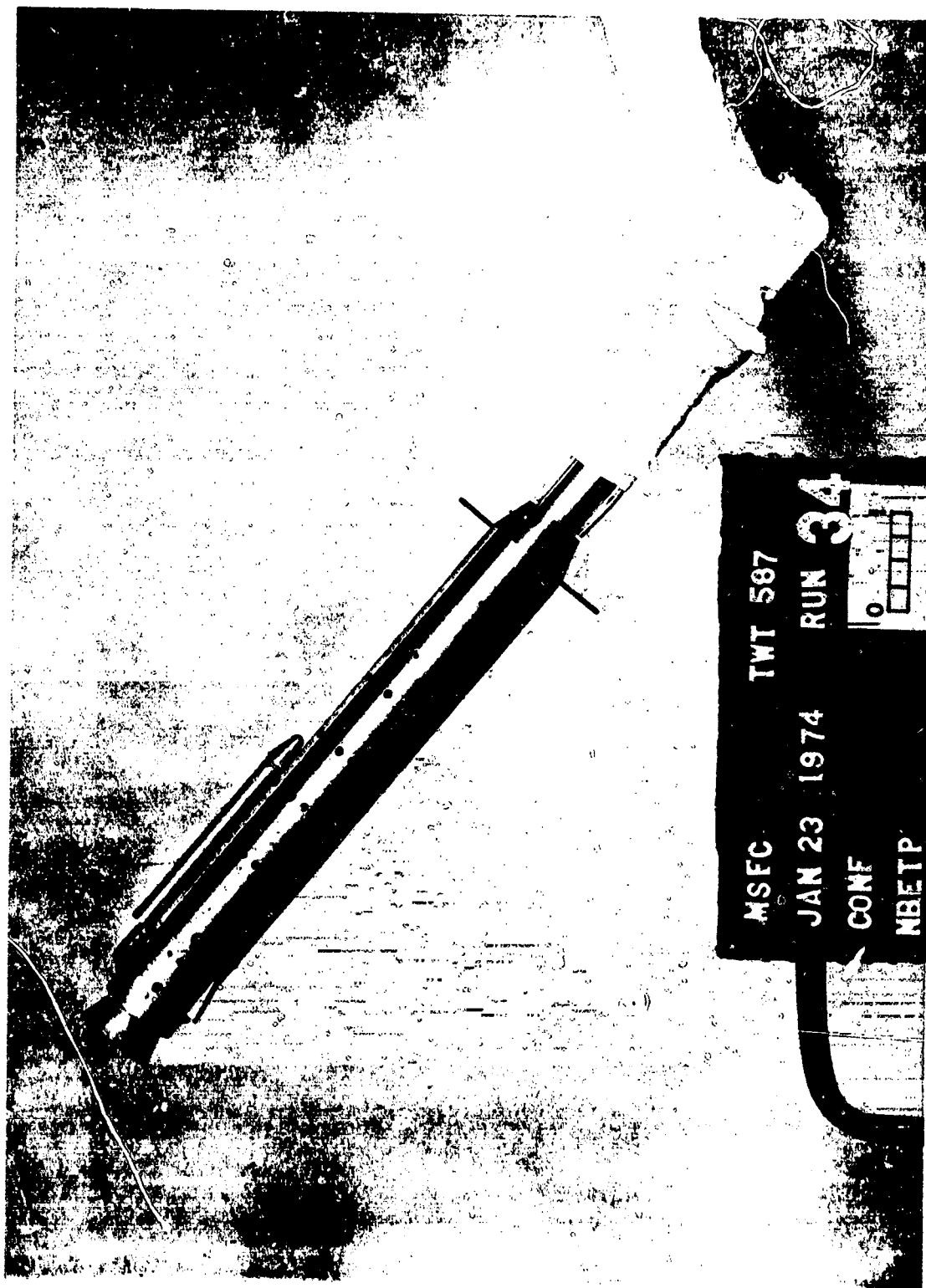


FIGURE 12. PHOTOGRAPH OF MODEL/SLING CONFIGURATION USED FOR ANGLE OF ATTACK RANGE OF 130° TO 190°

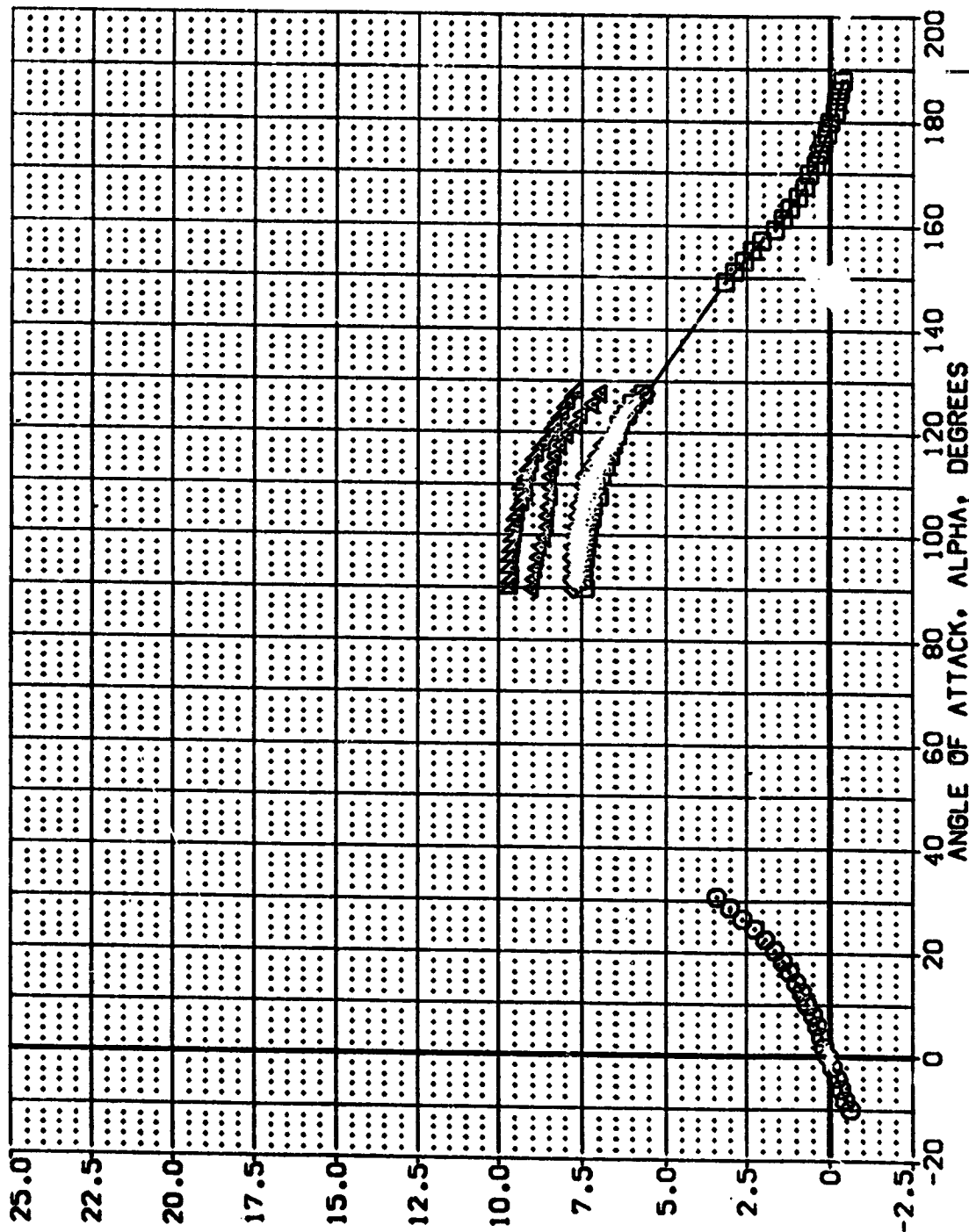
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LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(A)MACH = .59

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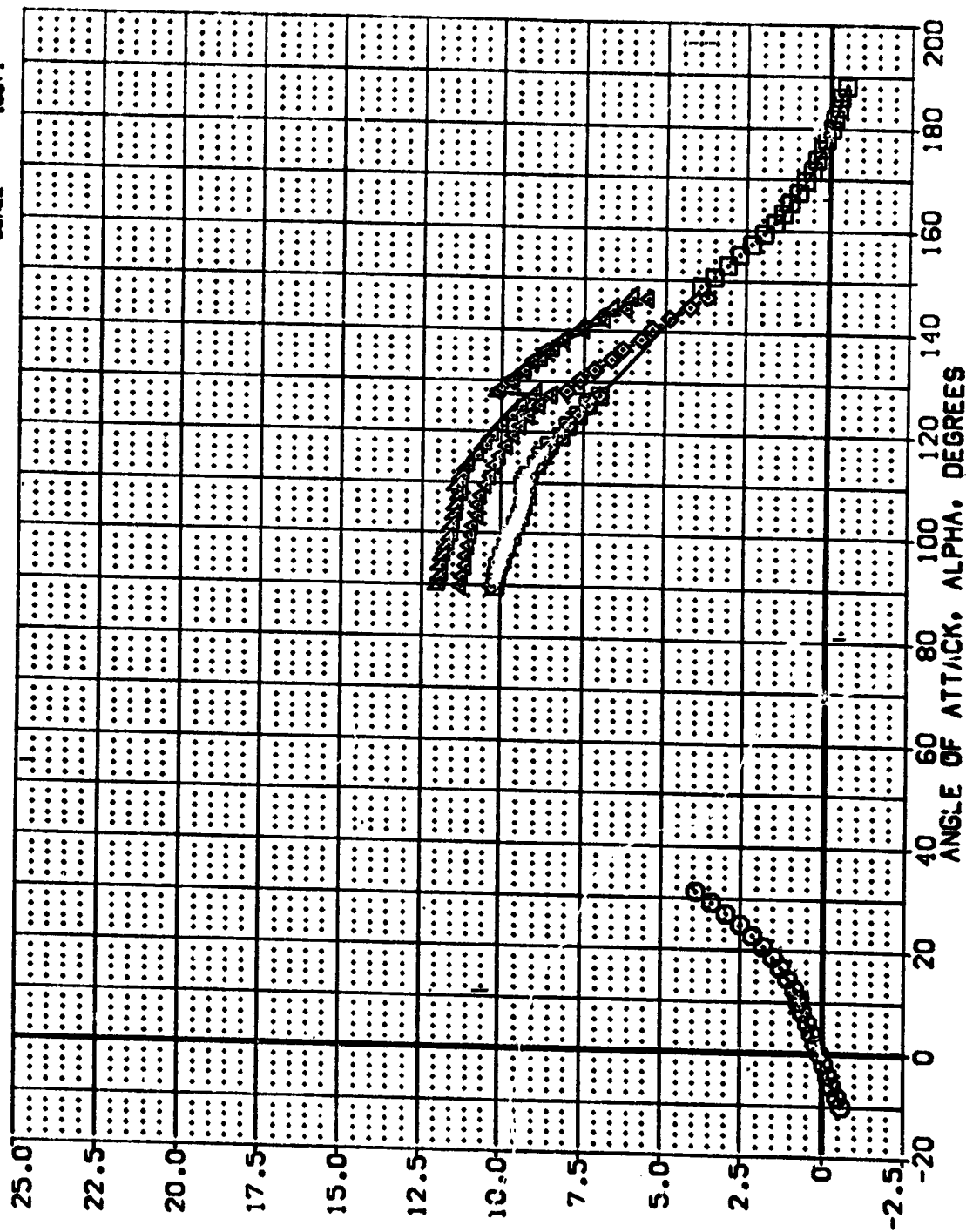


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LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

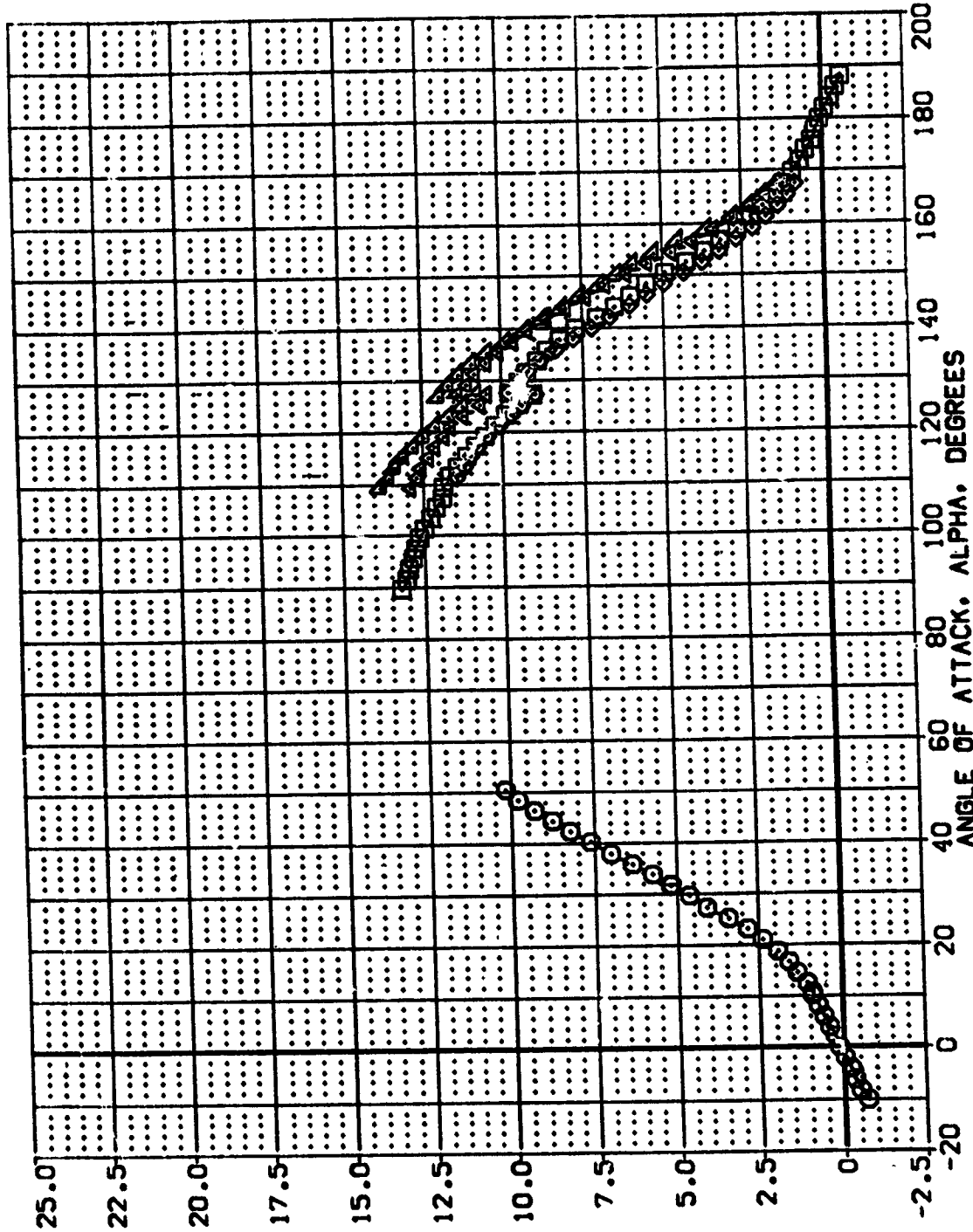
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LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

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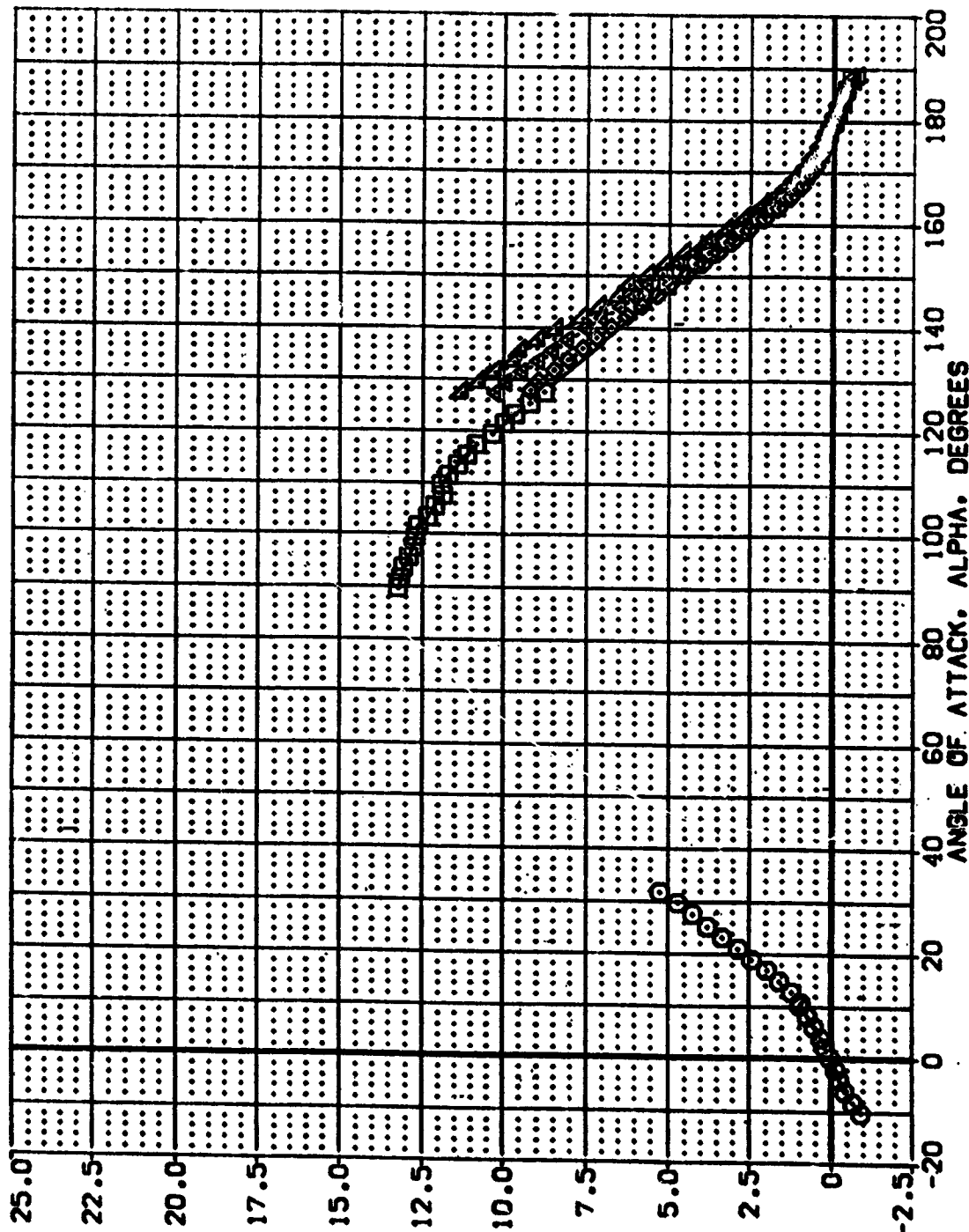
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LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

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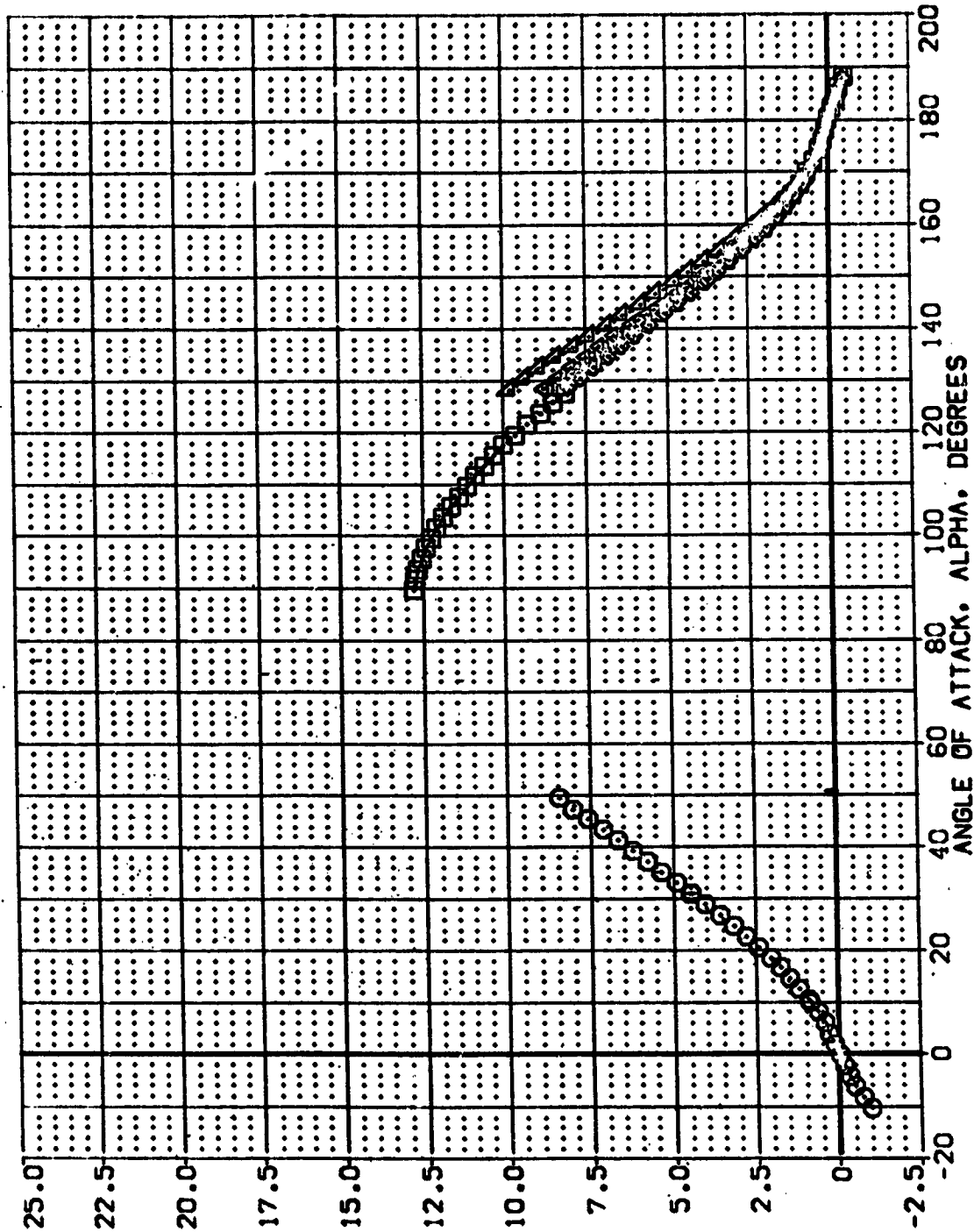


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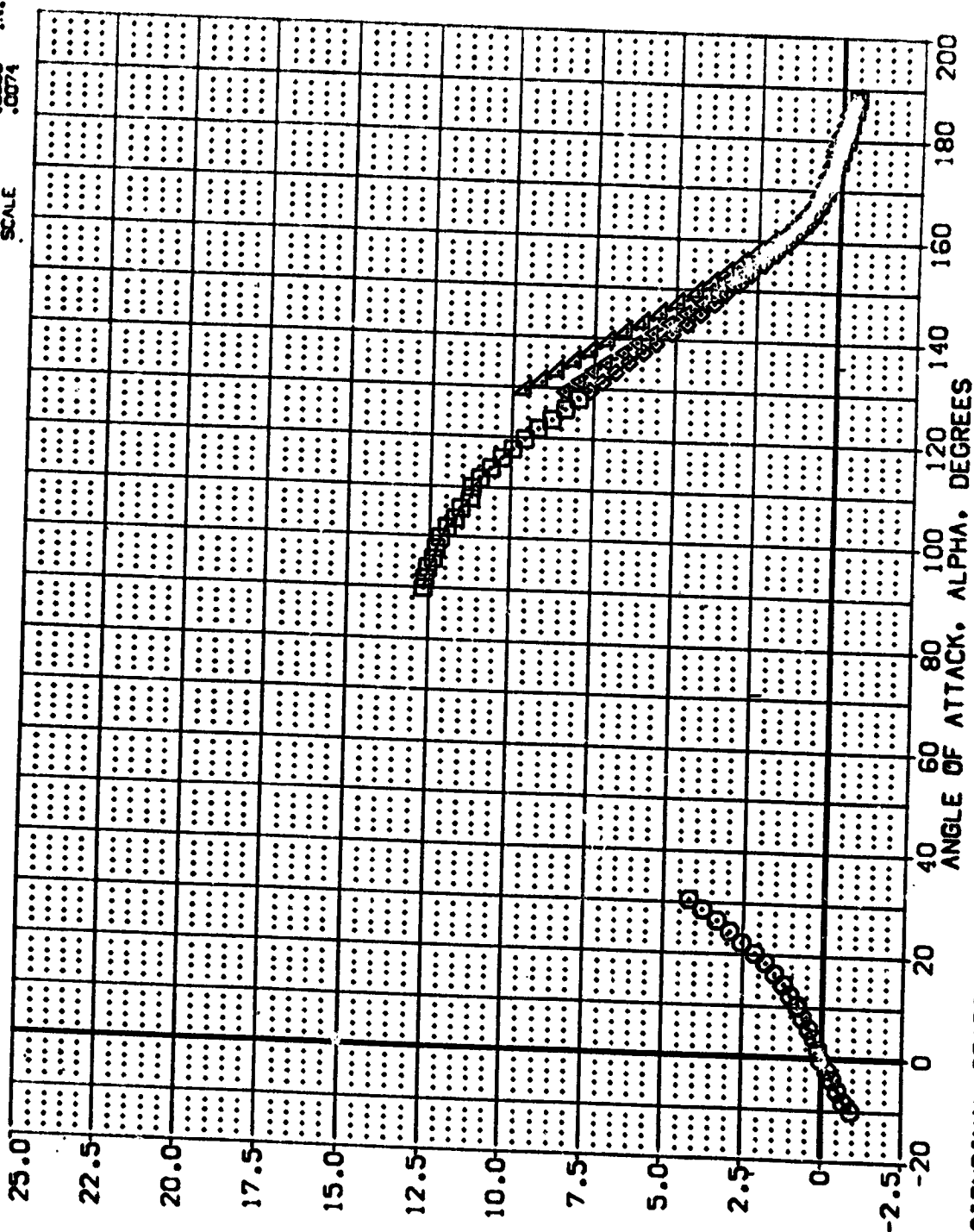
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LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

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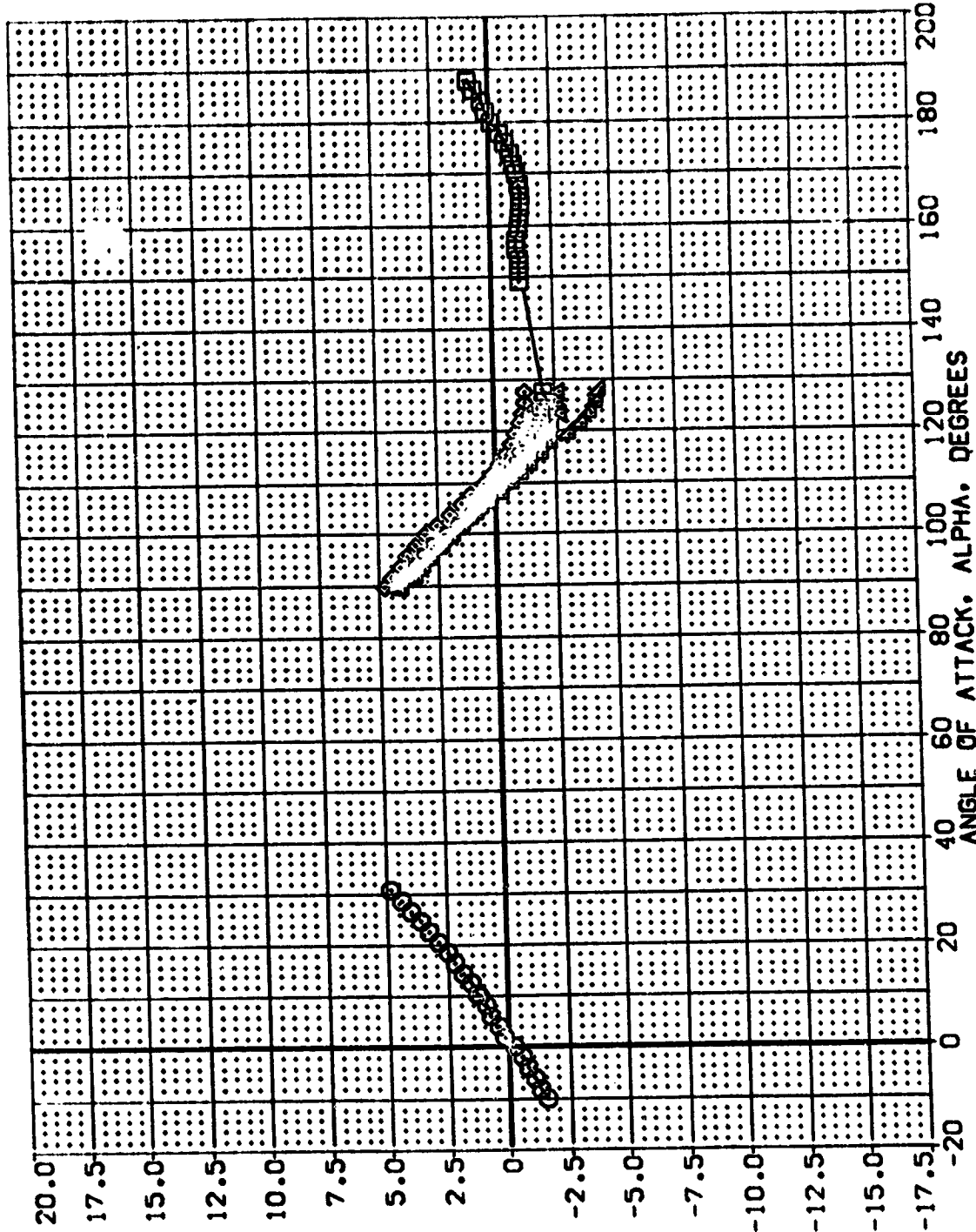


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LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

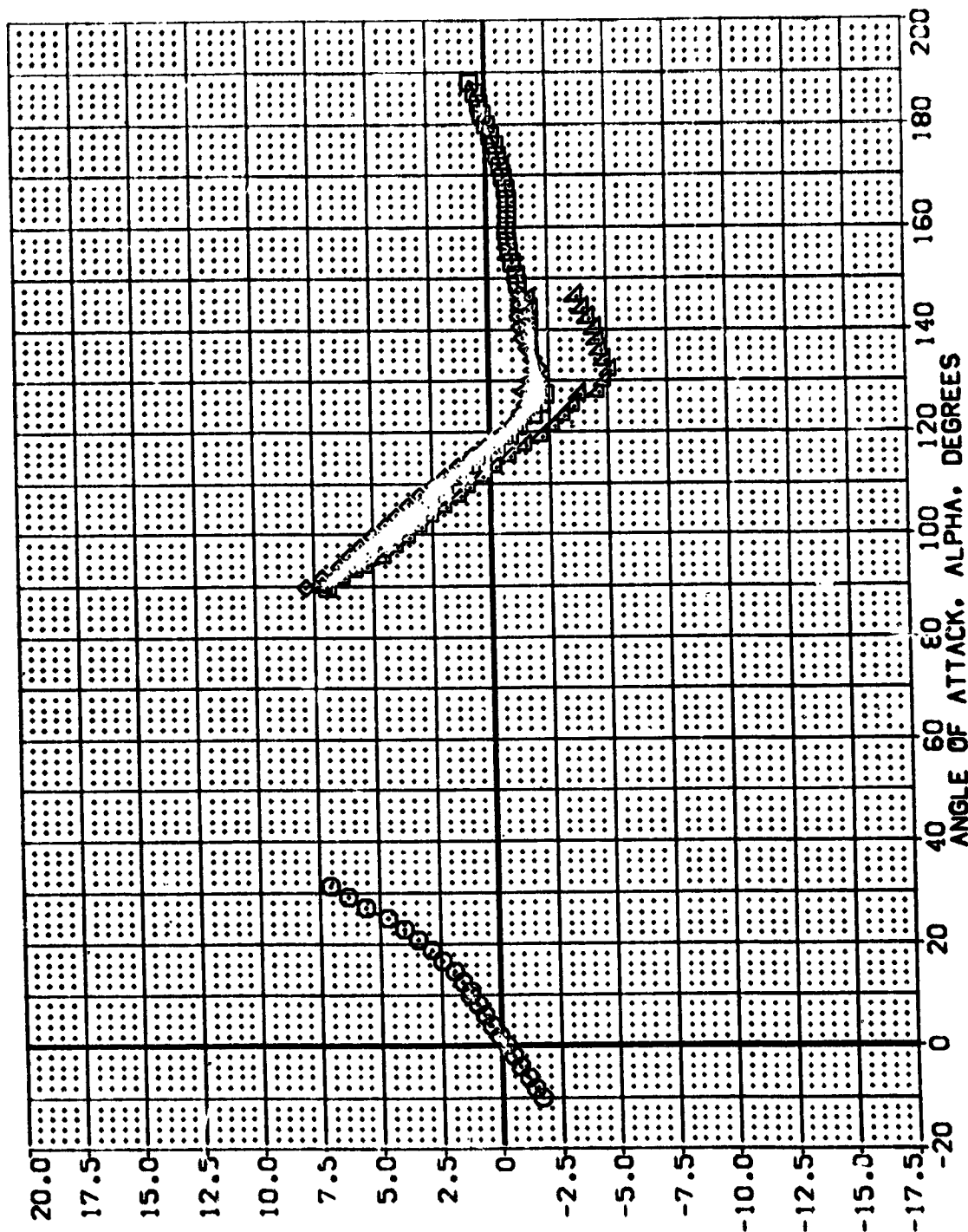
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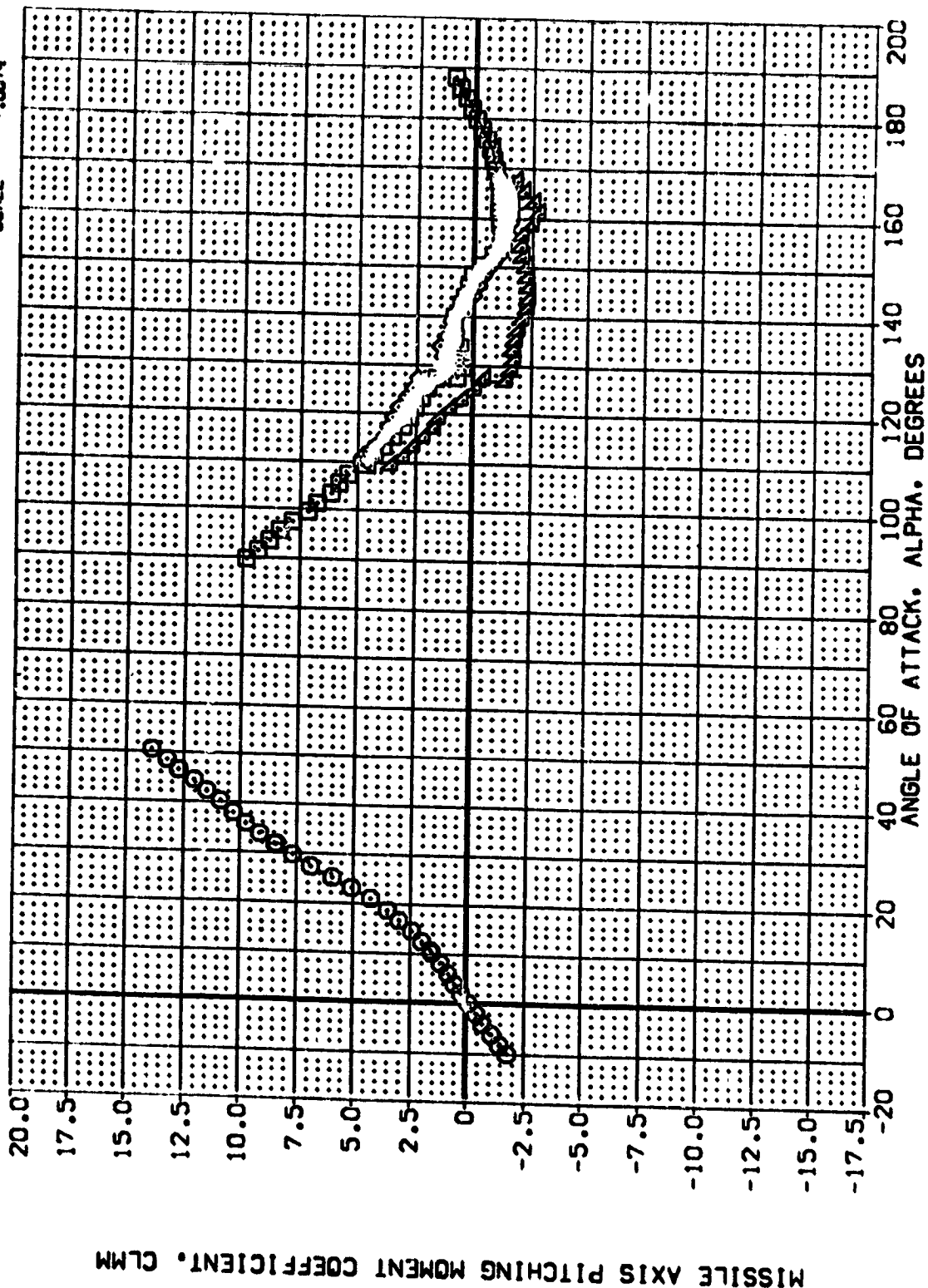
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LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

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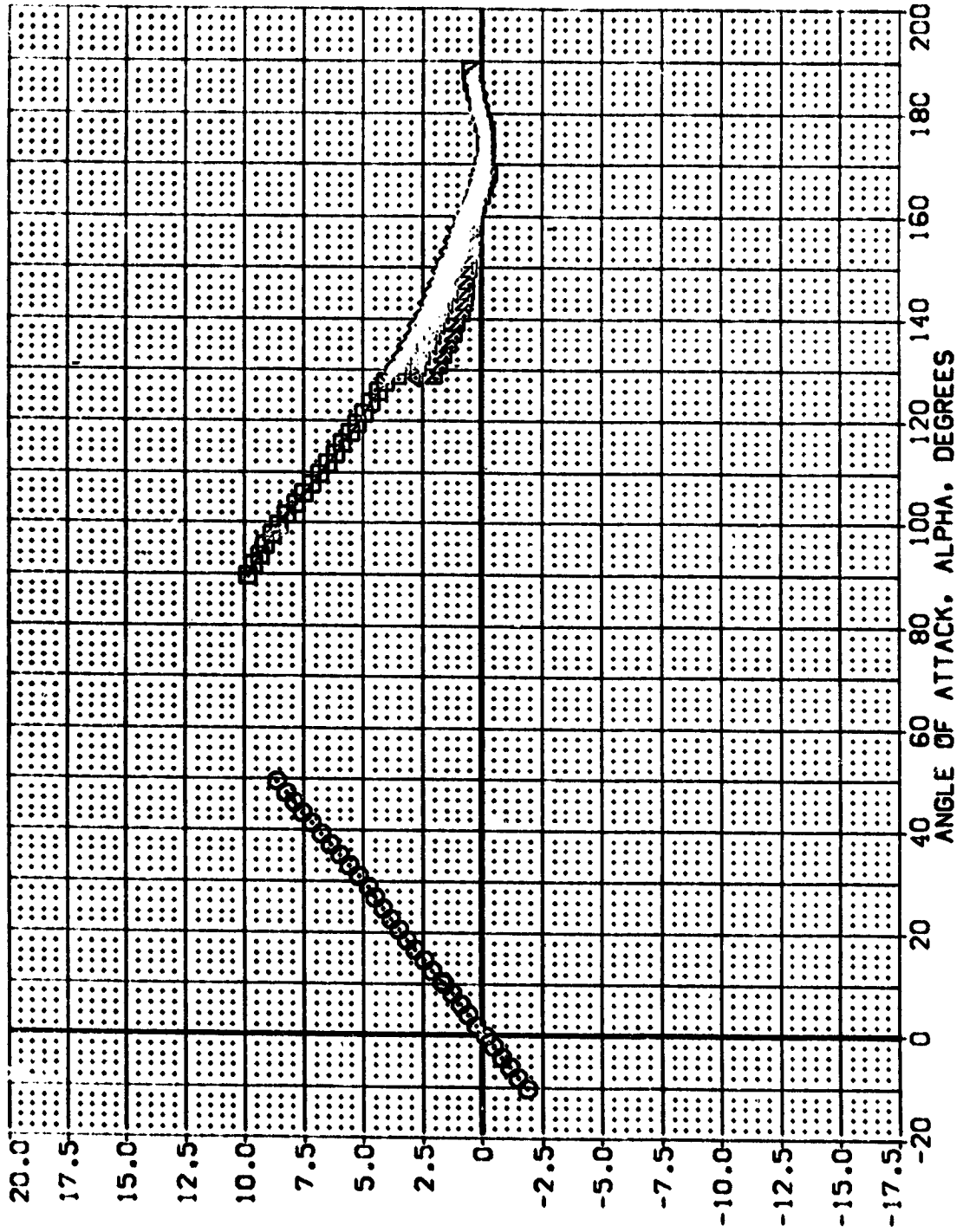


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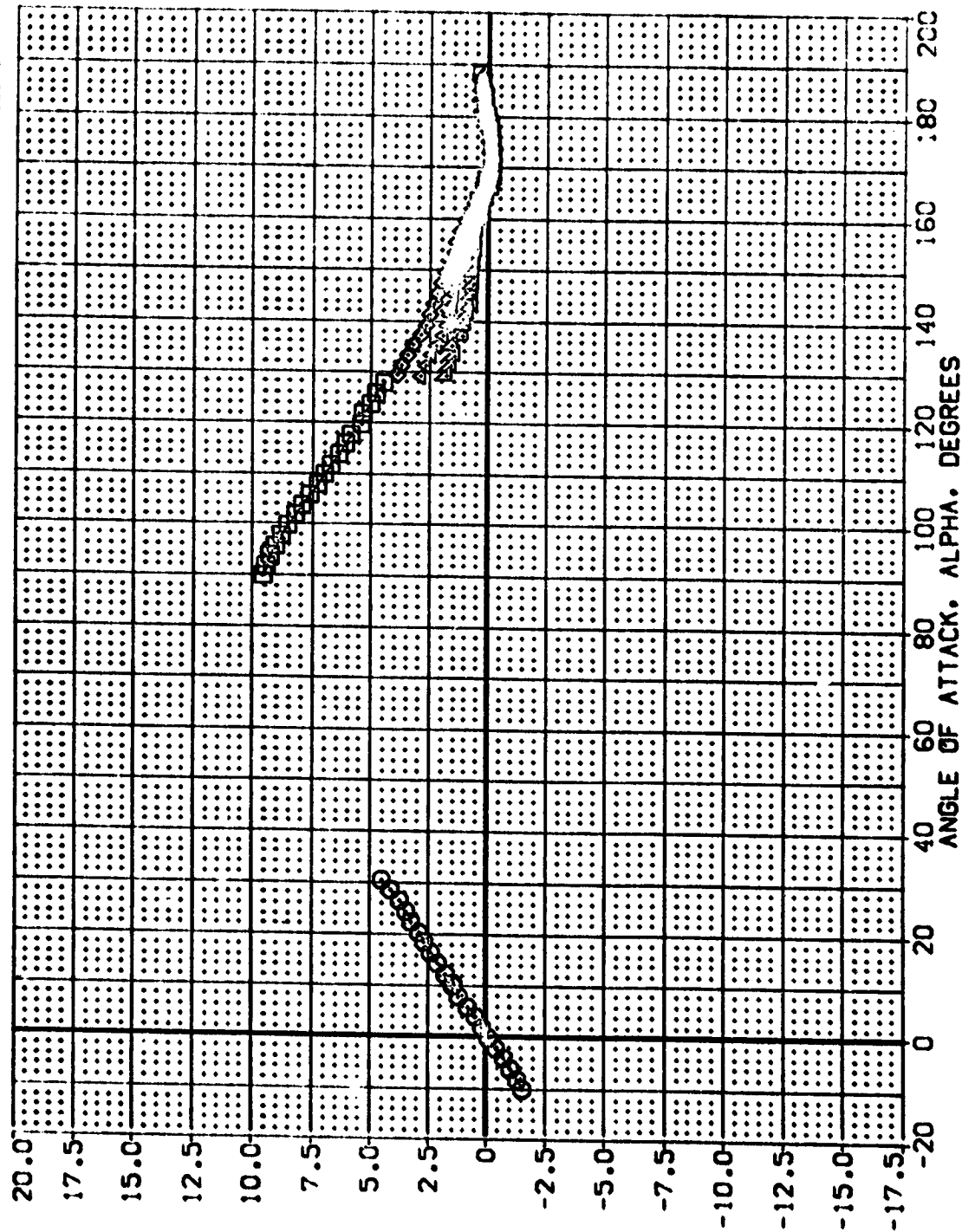
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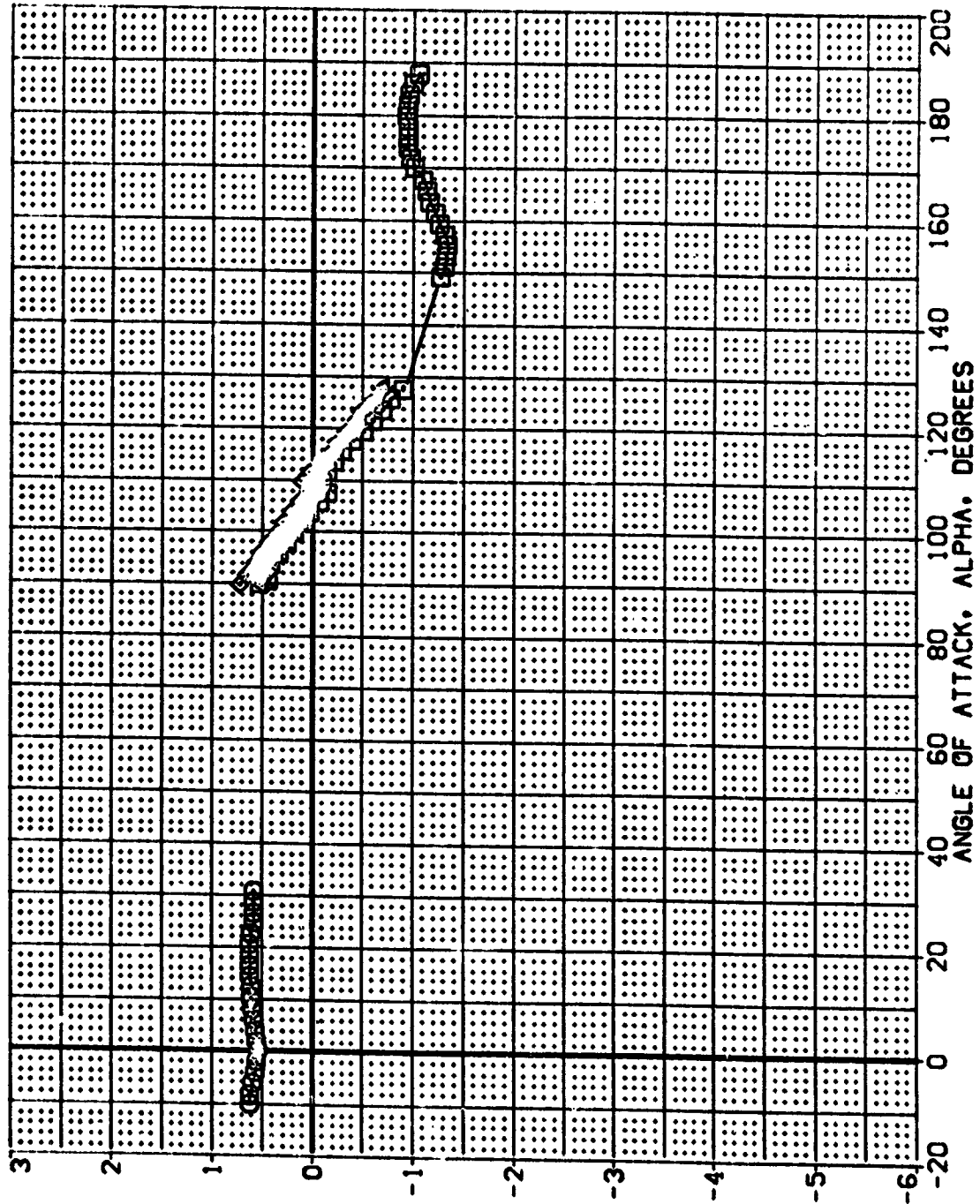
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AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

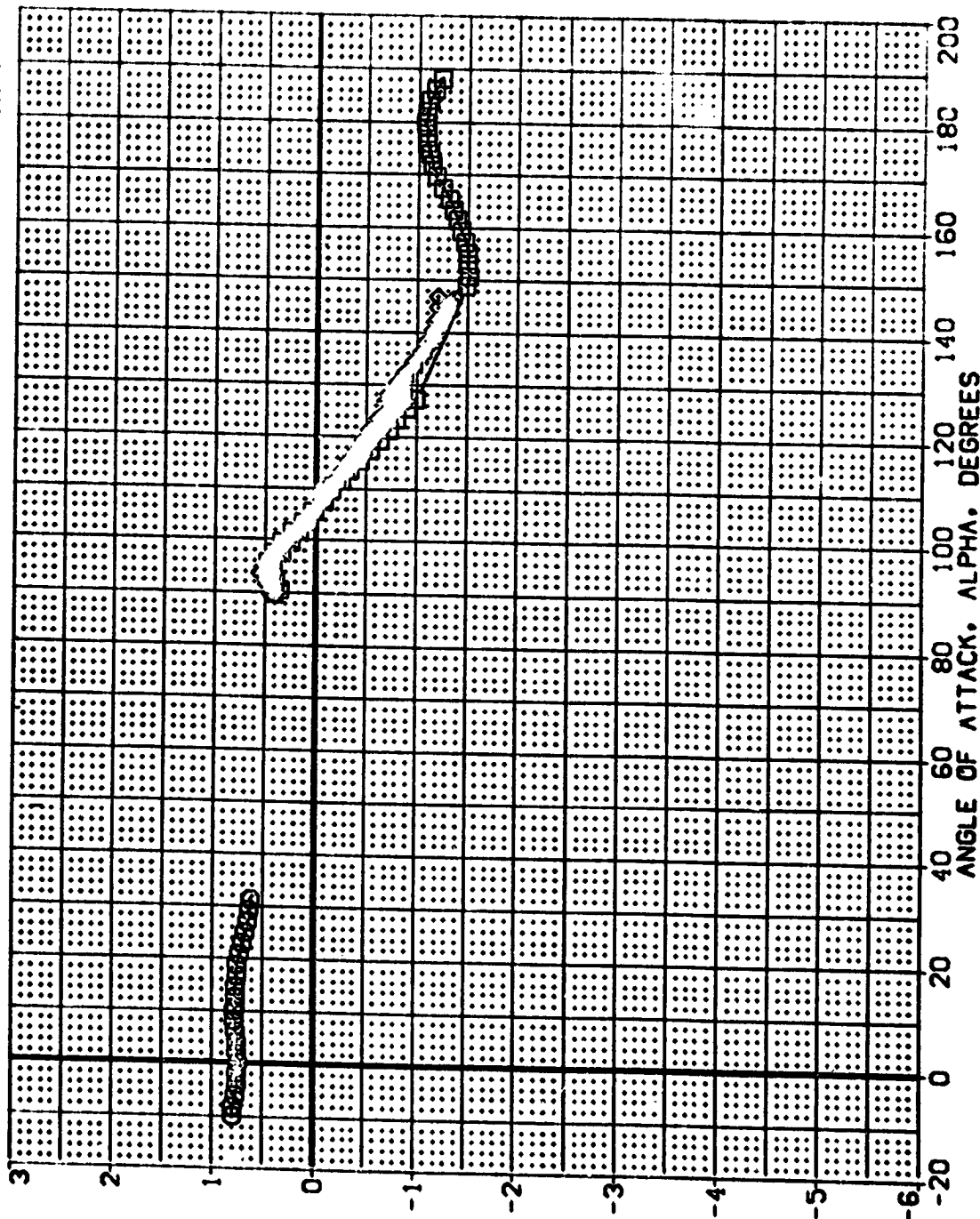
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AXIAL FORCE COEFFICIENT, CA

# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

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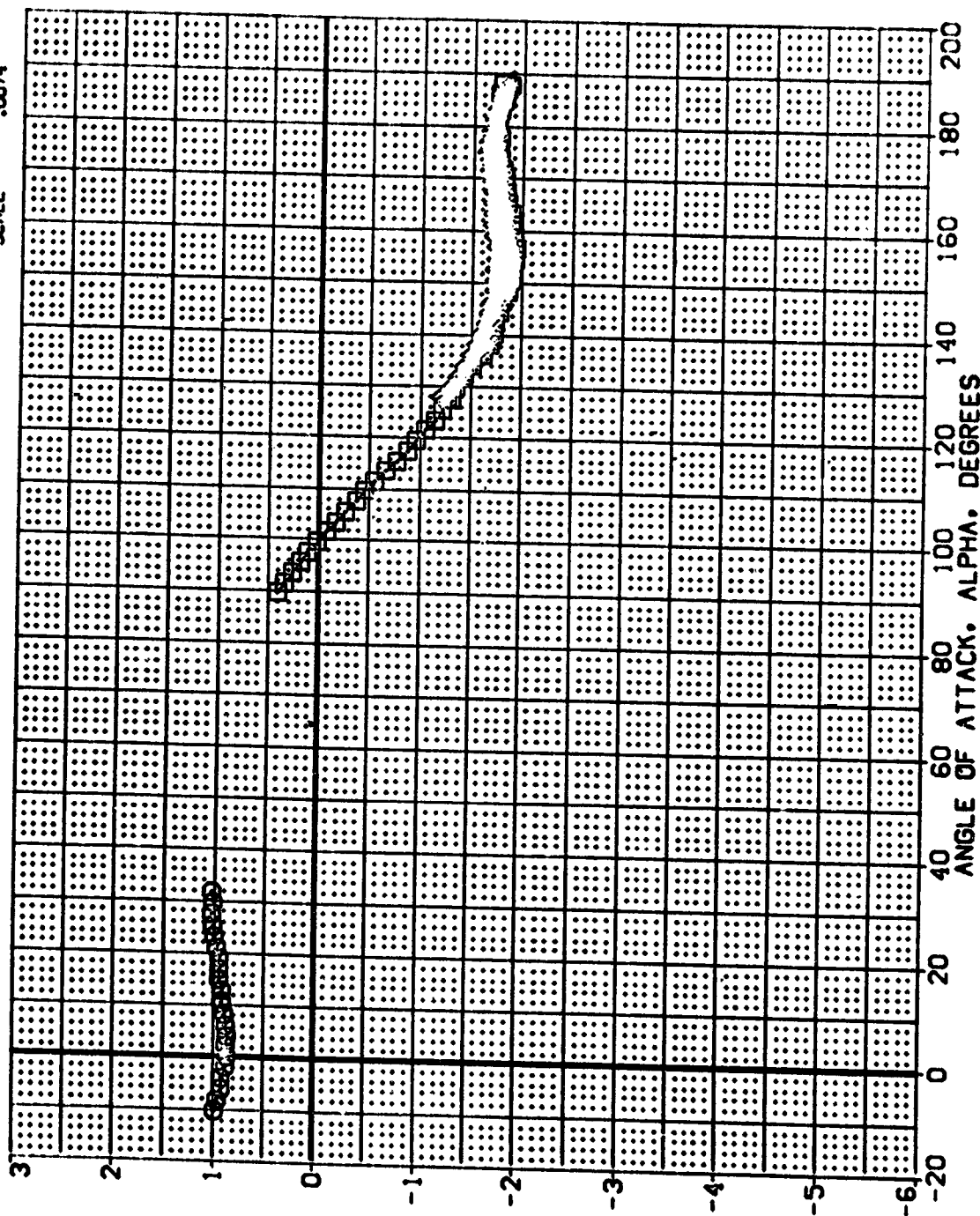
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AXIAL FORCE COEFFICIENT, CA

# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

$$CD_{MACH} = 1.96$$

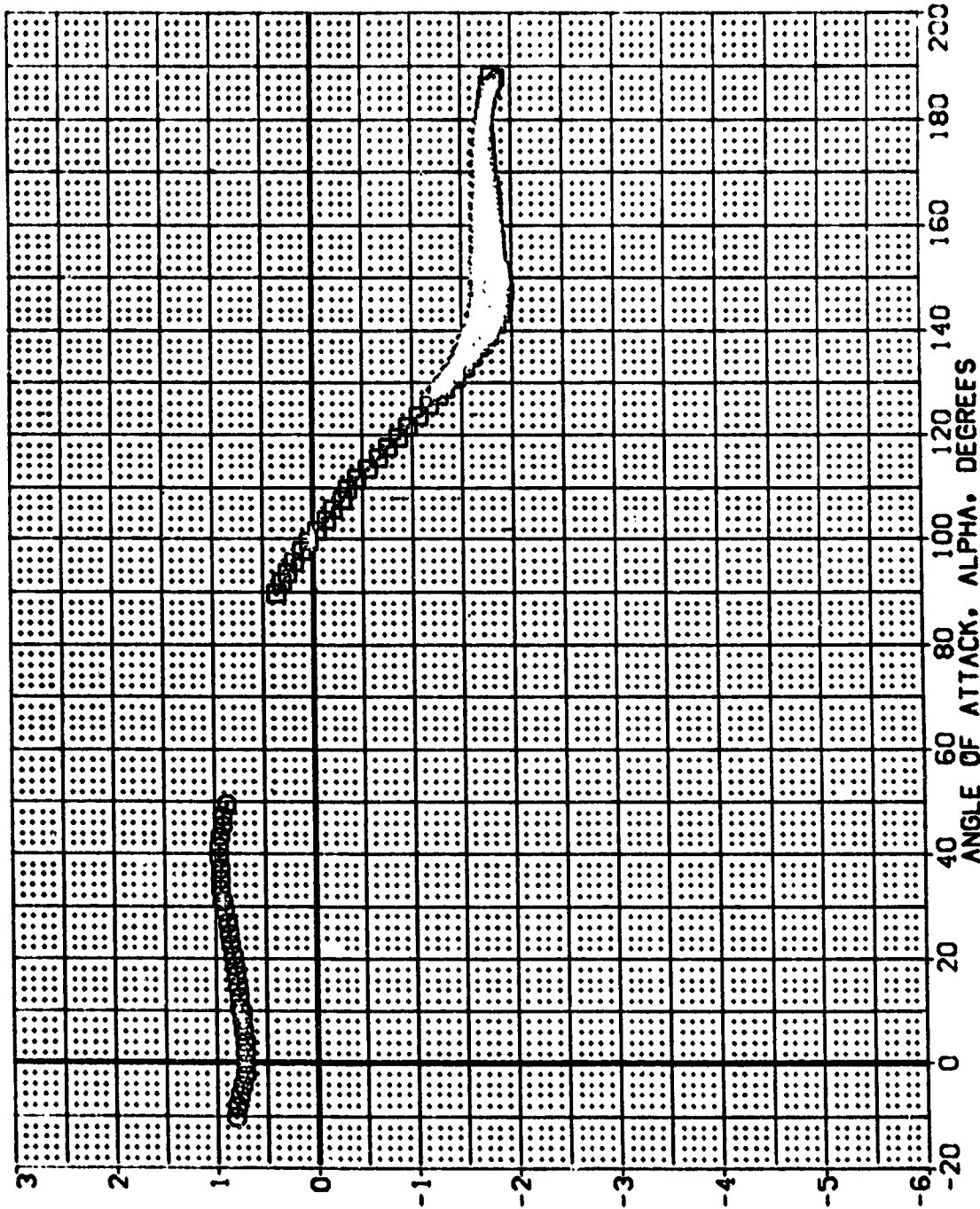
PAGE 16



REFERENCE INFORMATION  
SREF .5360  
LREF .8000  
BREF .8000  
XMRP .6330  
YMRP .0000  
ZMRP .0000  
SCALE .0074

BETA PH  
.000 .000  
.000 .000  
.000 45.000  
.000 90.000  
.000 135.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
[R57A01] MS C 587[FA4] TITAN III C SRM (NBETP)  
[R57A02] MS C 587[FA4] TITAN III C SRM (NBETP)  
[R57A03] MS C 587[FA4] TITAN III C SRM (NBETP)  
[R57A04] MS C 587[FA4] TITAN III C SRM (NBETP)  
[R57A05] MS C 587[FA4] TITAN III C SRM (NBETP)



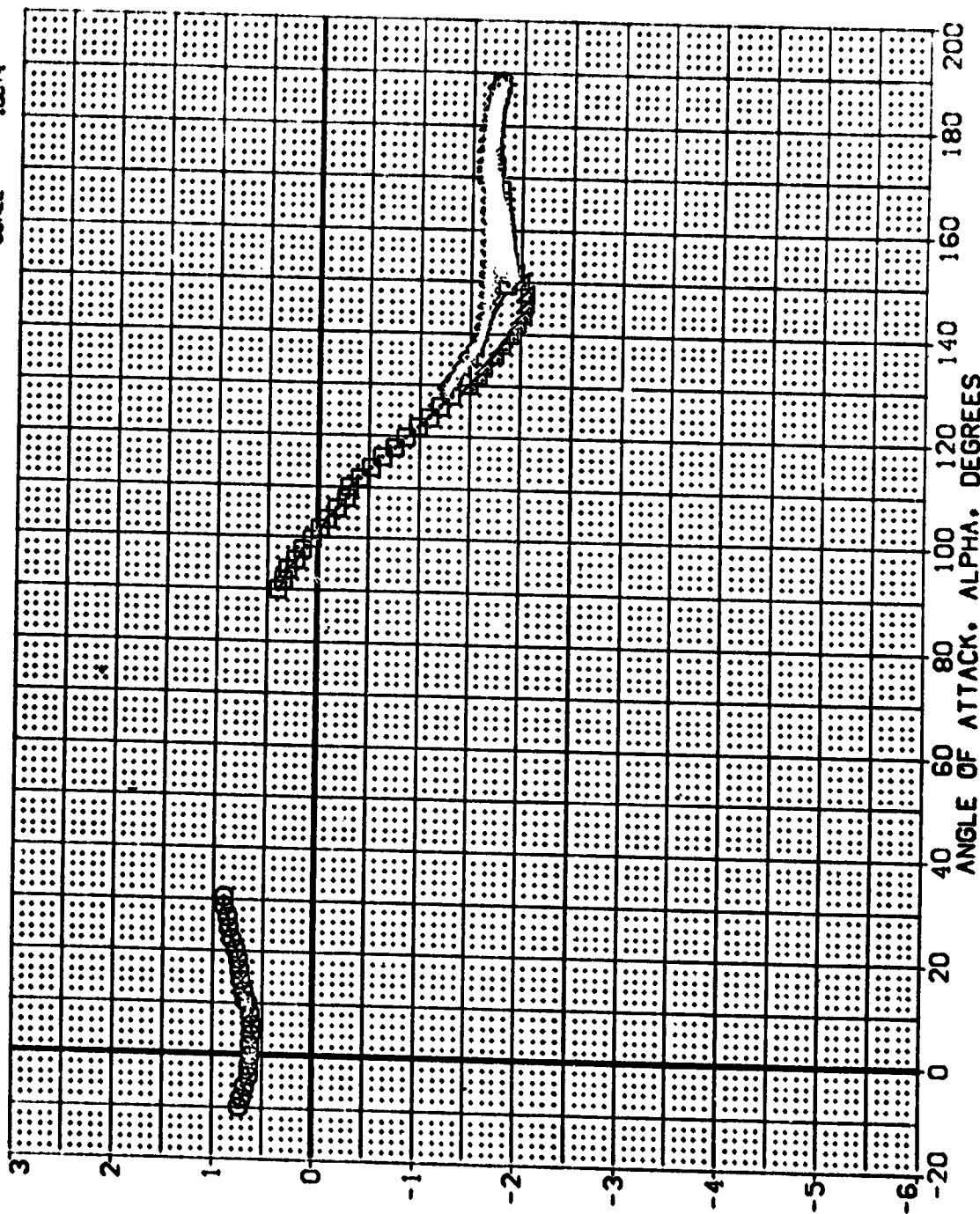
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(E)MACH = 3.48

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 [RSTAC:1] MSFC 587(FA4) TITAN III C SRM (NBETP)  
 [RSTAC:2] MSFC 587(FA4) TITAN III C SRM (NBETP)  
 [RSTAC:3] MSFC 587(FA4) TITAN III C SRM (NBETP)  
 [RSTAC:4] MSFC 587(FA4) TITAN III C SRM (NBETP)  
 [RSTAC:5] MSFC 587(FA4) TITAN III C SRM (NBETP)

BETA PHI  
 .000 .000  
 .000 .000  
 .000 45.000  
 .000 90.000  
 .000 135.000

REFERENCE INFORMATION  
 SREF .5360 SQ. IN  
 LREF .5000  
 BREF .5000  
 XMRP 4.6330  
 YMRP .0000  
 ZMRP .0000  
 SCALE .0074



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

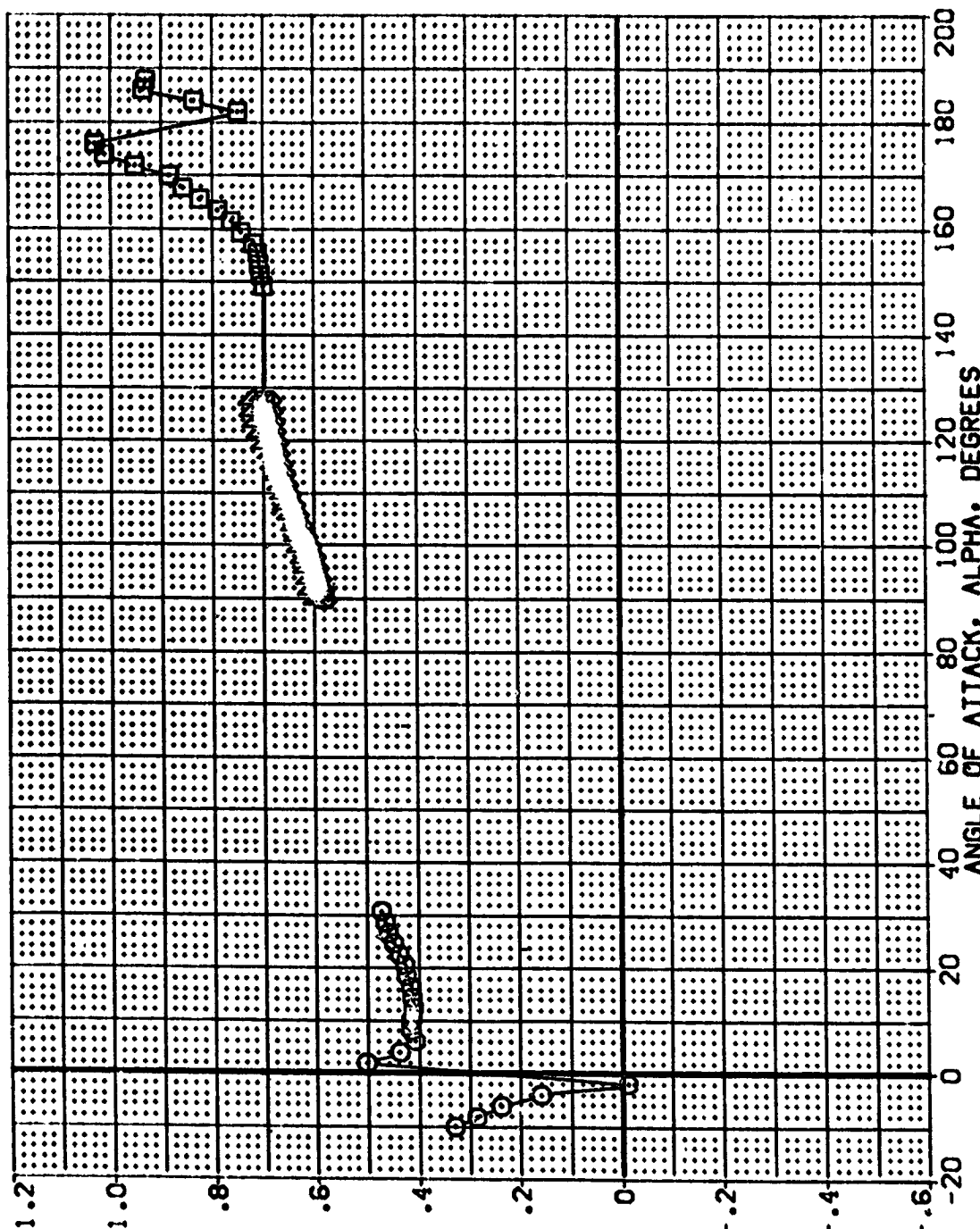
(CF)MACH = 4.96

PAGE : 8

DATA SET 57-30. CONFIGURATION DESCRIPTION

DATA SET	CONFIGURATION	DESCRIPTION	SRM (NBETP)	BETA	PHI	REFERENCE INFORMATION
57/01	57/FA4	TITAN III	0.00	0.00	0.00	SREF 6350 IN.
57/02	57/FA4	TITAN III	0.00	0.00	0.00	LREF 9000 IN.
57/03	57/FA4	TITAN III	0.00	0.00	0.00	BREF 9000 IN.
57/04	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/05	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/06	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/07	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/08	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/09	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/10	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/11	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/12	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/13	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/14	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/15	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/16	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/17	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/18	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/19	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/20	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/21	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/22	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/23	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/24	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/25	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/26	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/27	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/28	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/29	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.
57/30	57/FA4	TITAN III	0.00	0.00	0.00	4.6350 IN.

SCALE .0074



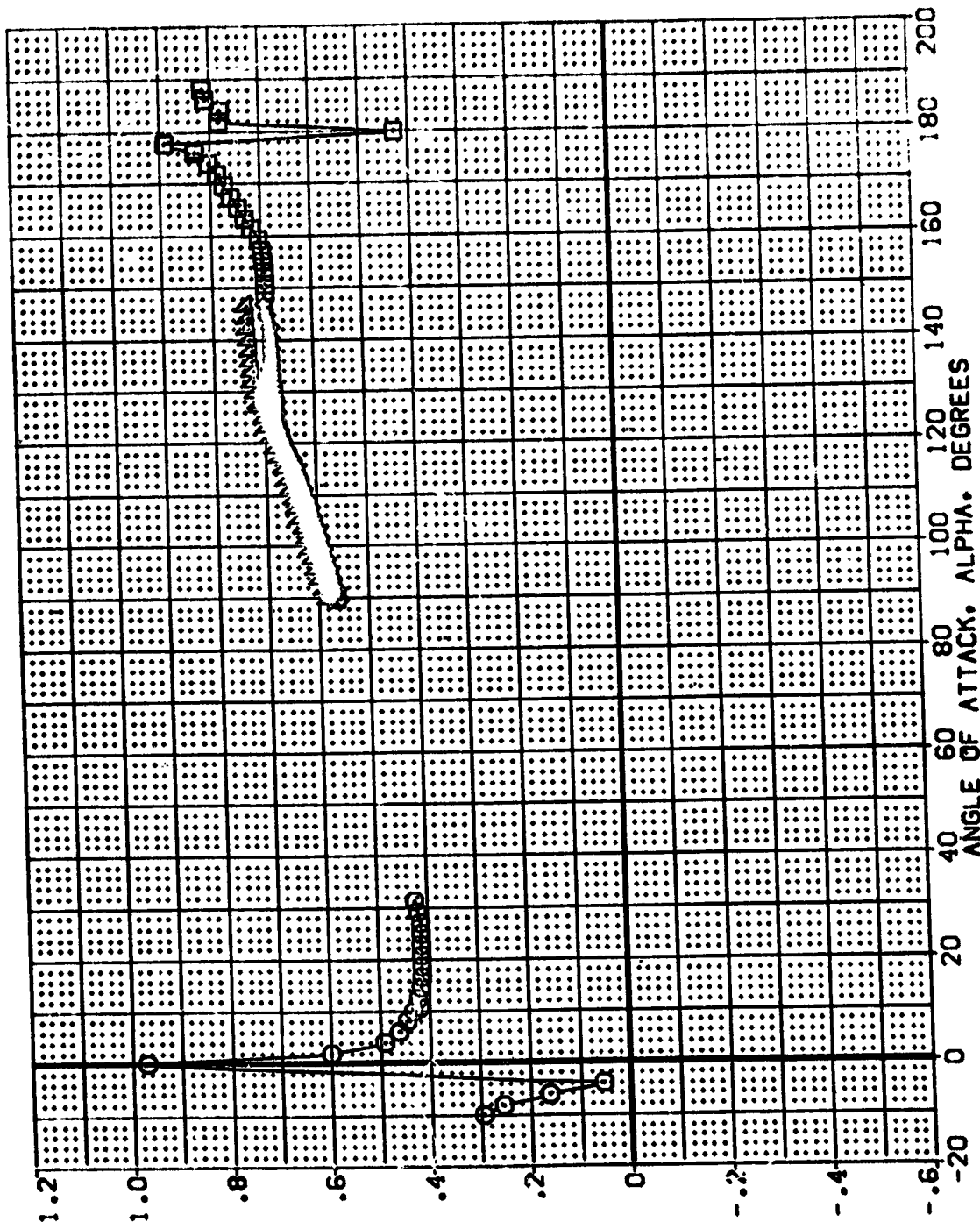
CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

REFERENCE INFORMATION  
 SREF 5370 SQ IN  
 LREF 5070  
 BREF 5070  
 XMRP 4.5330  
 YMRP 0.0000  
 ZMRP 0.0000  
 SCALE 0.74

BETA PHI  
 .000 .000  
 .000 .000  
 .000 45.000  
 .000 50.000  
 .000 150.000

DATA SET SYMBO. CONFIGURATION DESCRIPTION  
 [RSTAO1] MS C 587(F44) TITAN III C SRM (NBETP)  
 [RSTAO2] MS C 587(F44) TITAN III C SRM (NBETP)  
 [RSTAO3] MS C 587(F44) TITAN III C SRM (NBETP)  
 [RSTAO4] MS C 587(F44) TITAN III C SRM (NBETP)  
 [RSTAO5] MS C 587(F44) TITAN III C SRM (NBETP)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)M/CH = .90

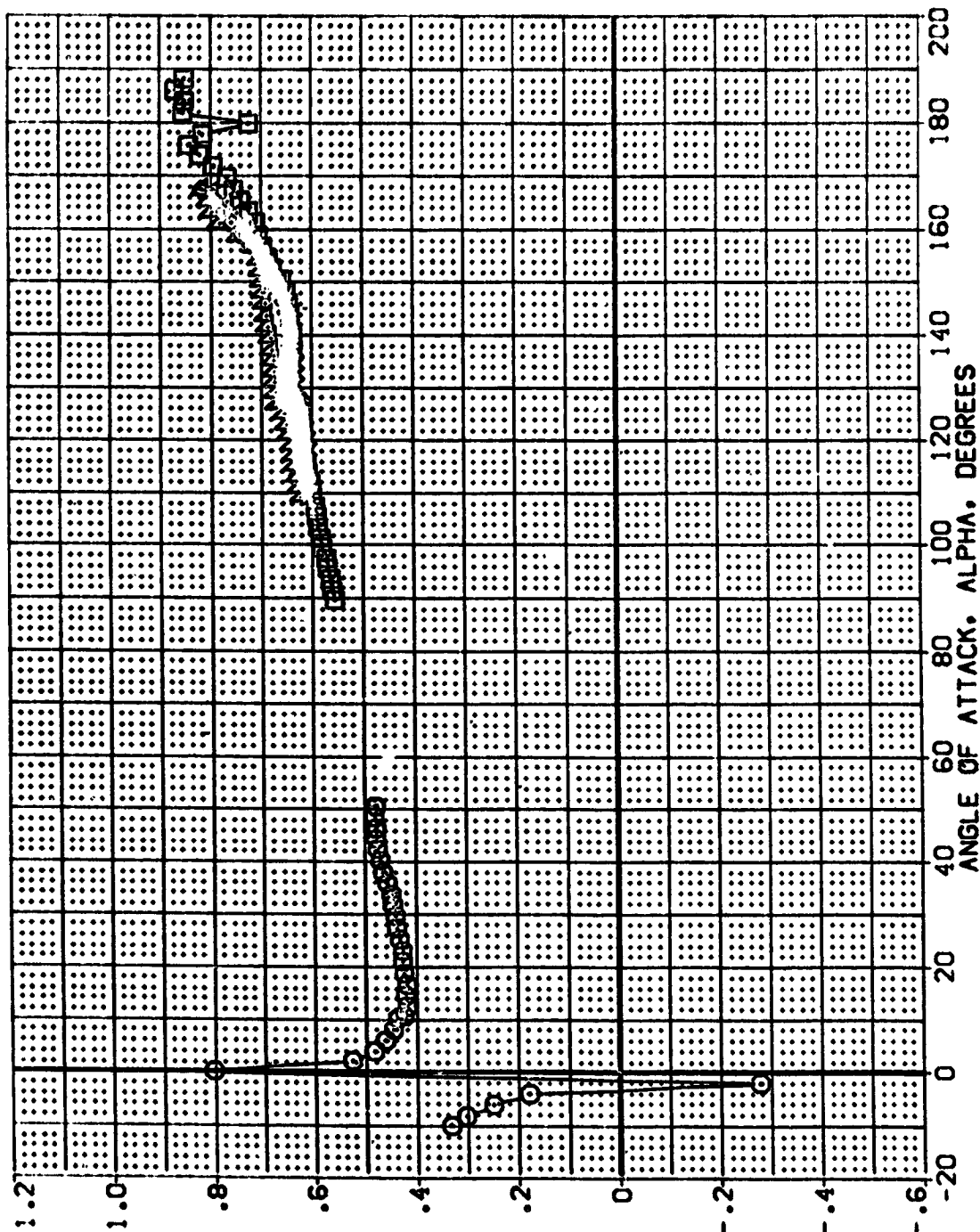


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION IN  
SREF .6360 SQ. IN  
LREF .5000  
BREF .5000  
XMRP 4.6330  
YMRP .0000  
ZMRP .0000  
SCALE .0074

BETA PH  
.000 .000  
.000 .000  
.000 45.000  
.000 90.000  
.000 135.000

DATA SE. SYMBOL. CONFIGURATION DESCRIPTION  
MS C 587(F44) TITAN III C SRM (NBETP)  
MS C 587(F44) TITAN III C SRM (NBETP)  
MS C 587(F44) TITAN III C SRM (NBETP)  
MS C 587(F44) TITAN III C SRM (NBETP)  
MS C 587(F44) TITAN III C SRM (NBETP)  
MS C 587(F44) TITAN III C SRM (NBETP)



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.20

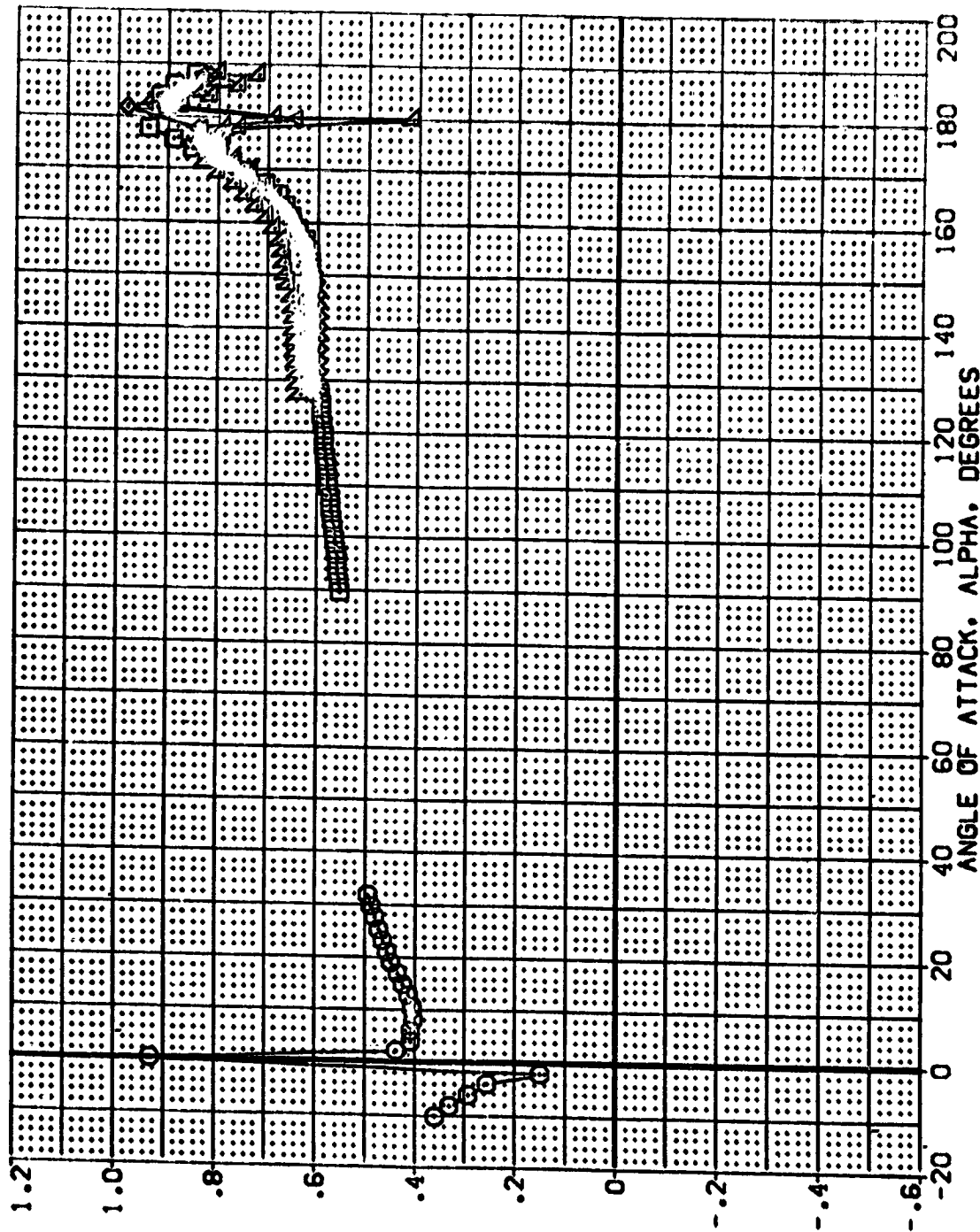




REFERENCE INFORMATION  
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LREF .9000 IN.  
BREF .9000 IN.  
XMRP 4.6360 IN.  
YMRP .0000 IN.  
ZMRP .0000 IN.  
SCALE .0074

BETA PHI  
.000 .000  
.000 .000  
.000 45.000  
.000 90.000  
.000 135.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
[R57A01] MS C 587 (FA4) TITAN III C SRM (NBETP)  
[R57A02] MS C 587 (FA4) TITAN III C SRM (NBETP)  
[R57A03] MS C 587 (FA4) TITAN III C SRM (NBETP)  
[R57A04] MS C 587 (FA4) TITAN III C SRM (NBETP)  
[R57A05] MS C 587 (FA4) TITAN III C SRM (NBETP)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

COMACH = 1.96

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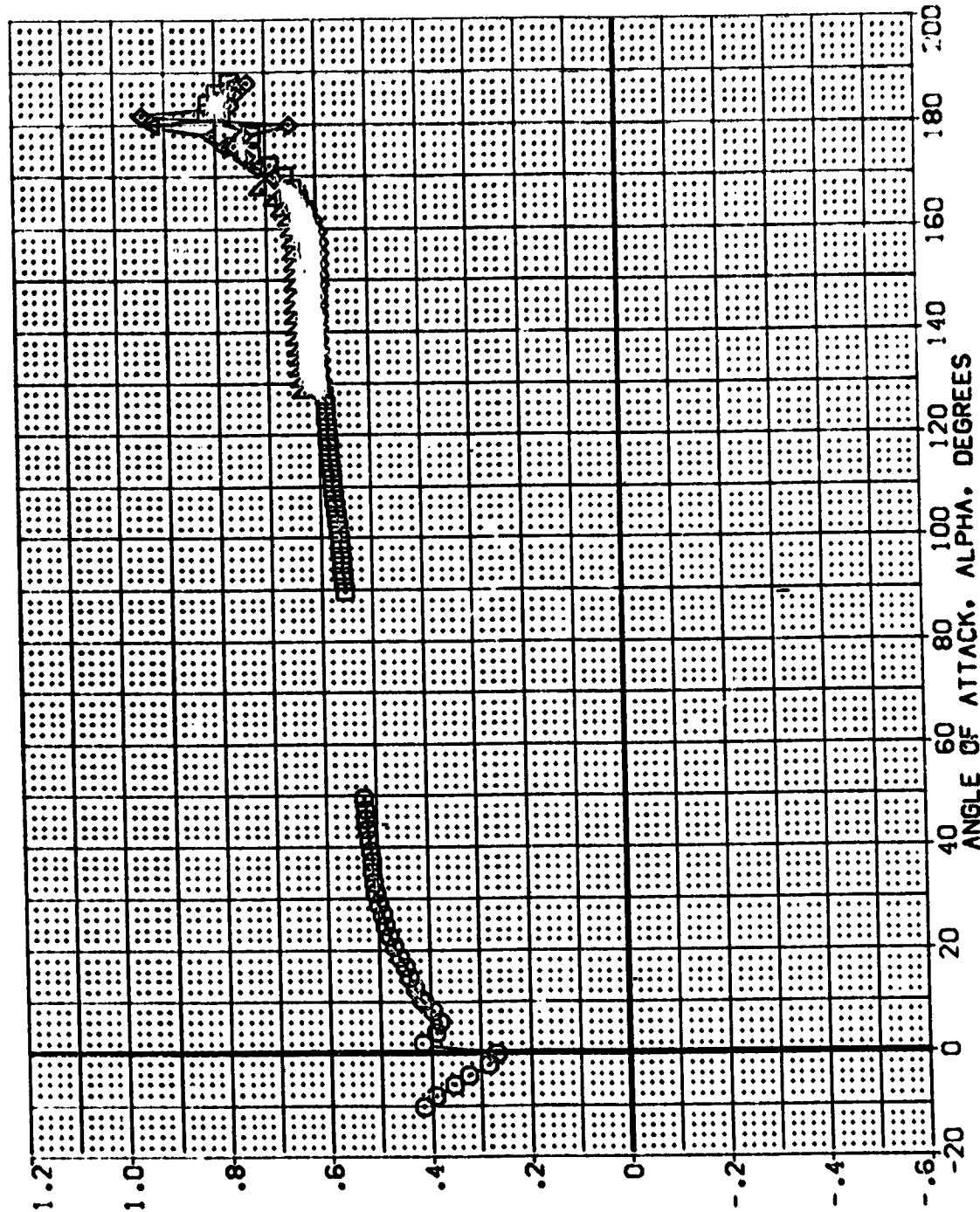


REFERENCE INFORMATION  
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 BREF .9000 IN.  
 YPRP .6330 IN.  
 ZPRP .0000 IN.  
 SCALE .0074

BETA PH-1  
 .000 .000  
 .000 .000  
 .000 45.000  
 .000 90.000  
 .000 135.000

DATA S. SYMB. CONFIGURATION DESCRIPTION  
 [287A:1] C C 587 (FA4) TITAN III C SRM (NBETP)  
 [287A:2] C C 587 (FA4) TITAN III C SRM (NBETP)  
 [287A:3] C C 587 (FA4) TITAN III C SRM (NBETP)  
 [287A:4] C C 587 (FA4) TITAN III C SRM (NBETP)  
 [287A:5] C C 587 (FA4) TITAN III C SRM (NBETP)

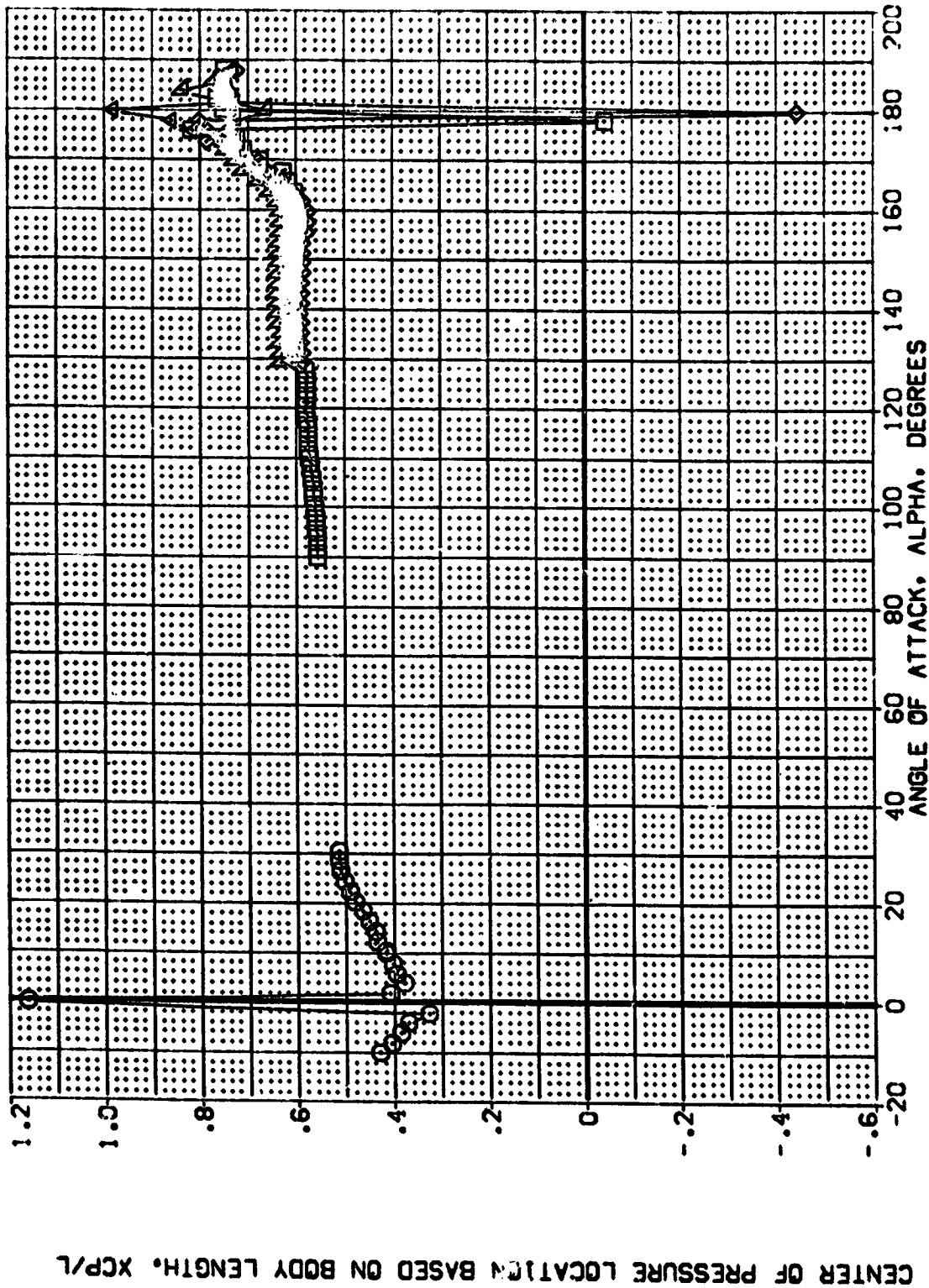
CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(E)MACH = 3.48

REFERENCE INFORMATION	
SREF	.5360
LREF	.9000
BRF	.9000
XRPR	1.6333
YMRP	.0000
ZMRP	.0000
SCALE	.0074

[illegible]

# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

$$[CF]_{MACH} = 4.96$$

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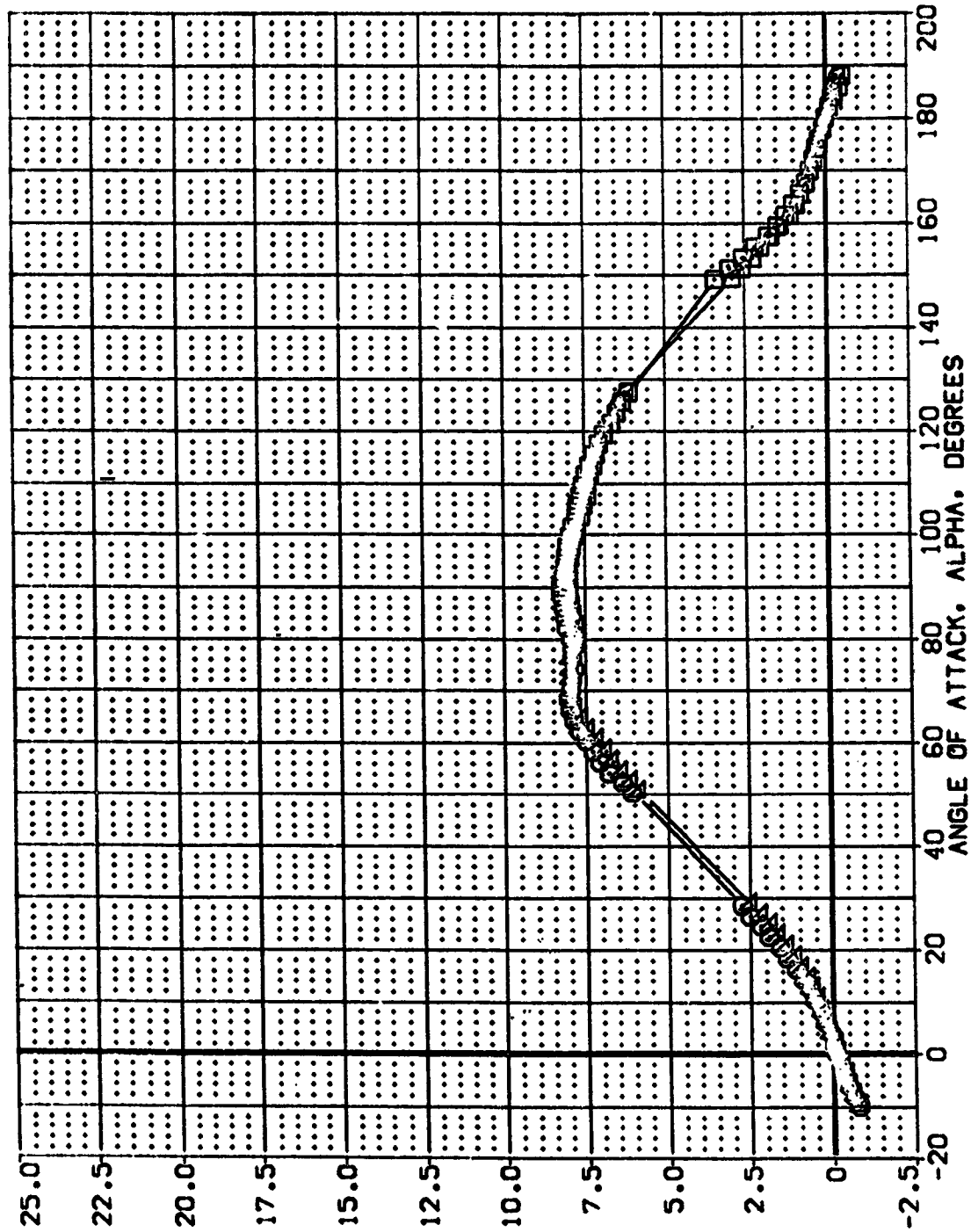


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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LREF .9000 IN.  
BREF .9000 IN.  
XMRP .4.6350 IN.  
YMRP .0000 IN.  
ZMRP .0000 IN.  
SCALE .0074

BETA PH  
.000 180.000  
.000 180.000  
.000 202.500  
.000 202.500  
.000 225.000  
.000 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
MSFC 587(PA4) TITAN III C SRM (NBETP)  
MSFC 587(PA4) TITAN III C SRM (NBETP)  
DATA NOT AVAILABLE  
MSFC 587(PA4) TITAN III C SRM (NBETP)  
MSFC 587(PA4) TITAN III C SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, C<sub>N</sub>M

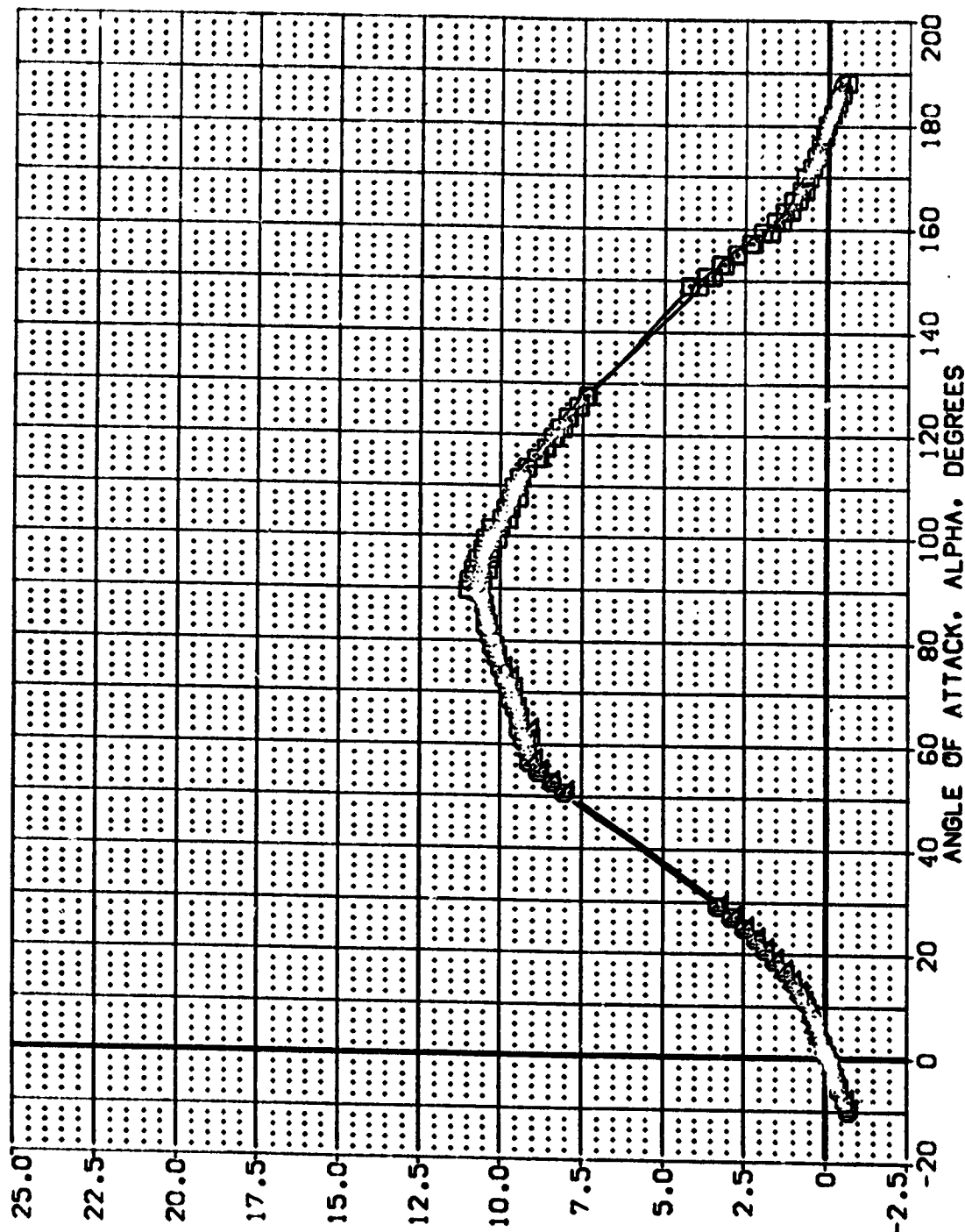
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(A)MACH = .59

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DATA SET SYMBOL. CONFIGURATION DESCRIPTION BETA PHI REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHI	SREF	LREF	BREF	XMRP	YMRP	ZMRP	SCALE
[R57A]7	MSFC 587[FA4] TITAN III C SRM (NBETP)	.000	180.000	.6360	.0000	.0000	.0000	.0000	.0000	.0074
[R57A]8	MSFC 587[FA4] TITAN III C SRM (NBETP)	.000	180.000	.9000	.0000	.0000	.0000	.0000	.0000	.0074
[R57A]5	DATA NOT AVAILABLE	.000	202.500	.0000	.0000	.0000	.0000	.0000	.0000	.0074
[R57A]6	DATA NOT AVAILABLE	.000	202.500	.0000	.0000	.0000	.0000	.0000	.0000	.0074
[R57A]3	MSFC 587[FA4] TITAN III C SRM (NBETP)	.000	225.000	.0000	.0000	.0000	.0000	.0000	.0000	.0074
[R57A]4	MSFC 587[FA4] TITAN III C SRM (NBETP)	.000	225.000	.0000	.0000	.0000	.0000	.0000	.0000	.0074

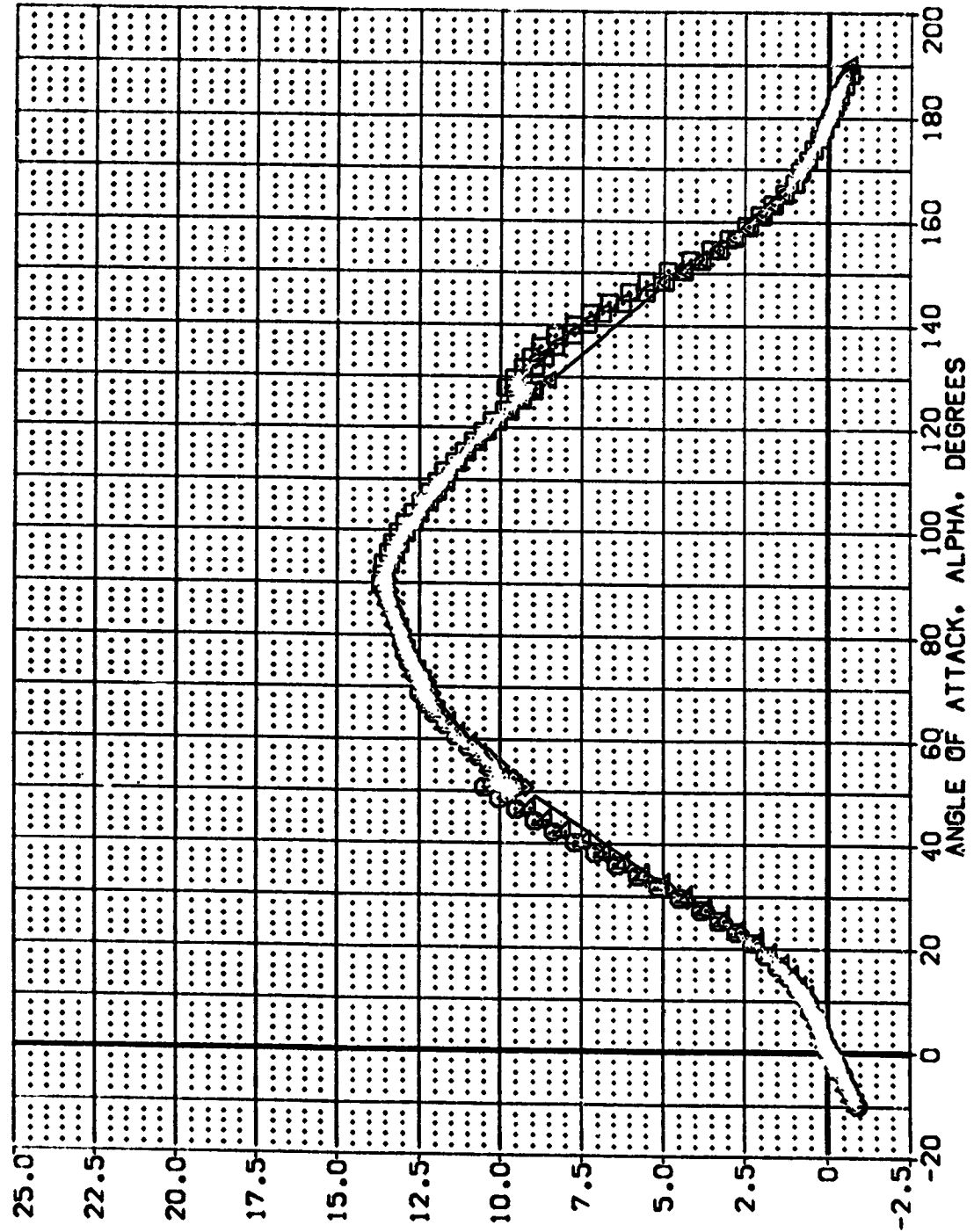


LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA PH REFERENCE INFORMATION

MS-C 587(F4)	TITAN	111	C SRM (NBETP)	.000	180.000	SREF	.6360	IN
MS-C 587(F4)	TITAN	111	C SRM (NBETP)	.000	180.000	LREF	.9000	IN
MS-C 587(F4)	TITAN	111	C SRM (NBETP)	.000	202.500	BREF	.9000	IN
MS-C 587(F4)	TITAN	111	C SRM (NBETP)	.000	202.500	XMRP	4.6330	IN
MS-C 587(F4)	TITAN	111	C SRM (NBETP)	.000	225.000	YMRP	.0000	IN
MS-C 587(F4)	TITAN	111	C SRM (NBETP)	.000	225.000	ZMRP	.0000	IN
MS-C 587(F4)	TITAN	111	C SRM (NBETP)	.000	225.000	SCALE	.0074	



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(CJMACH = 1.19)

DATA SET SYMBOL CONFIGURATION DESCRIPTION

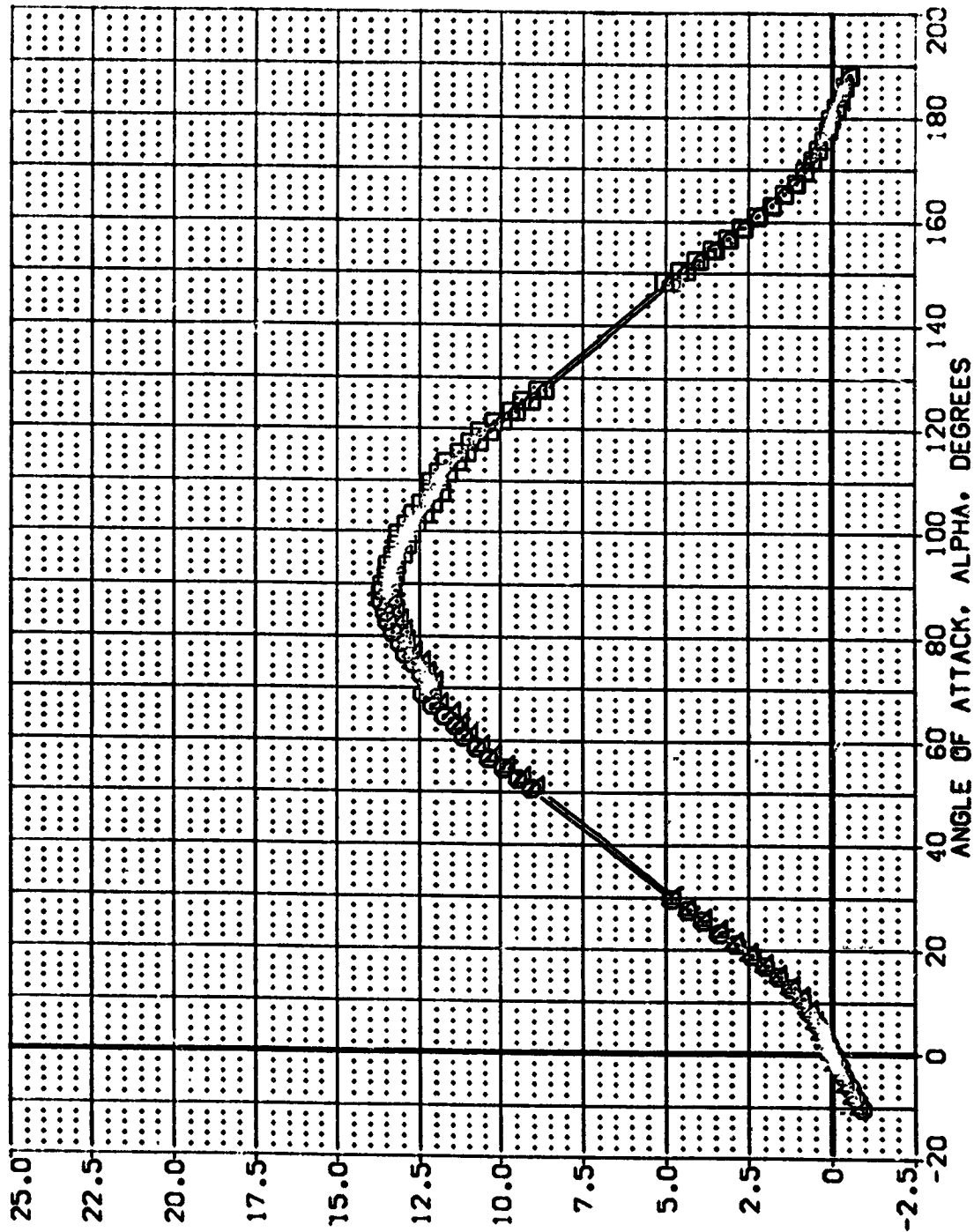
MSFC 587(F44) TITAN III C SRM (NBETP)  
 MSFC 587(F44) TITAN III C SRM (NBETP)  
 DATA NOT AVAILABLE  
 MSFC 587(F44) TITAN III C SRM (NBETP)  
 MSFC 587(F44) TITAN III C SRM (NBETP)

BETA PHI

.000 180.000  
 .000 180.000  
 .000 202.500  
 .000 202.500  
 .000 225.000  
 .000 225.000

REFERENCE INFORMATION

SREF .6360 SQ. IN.  
 LREF .5000 IN.  
 XREF .5000 IN.  
 YMRP 4.6330 IN.  
 ZMRP .0000 IN.  
 SCALE .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(D)MACH = 1.96

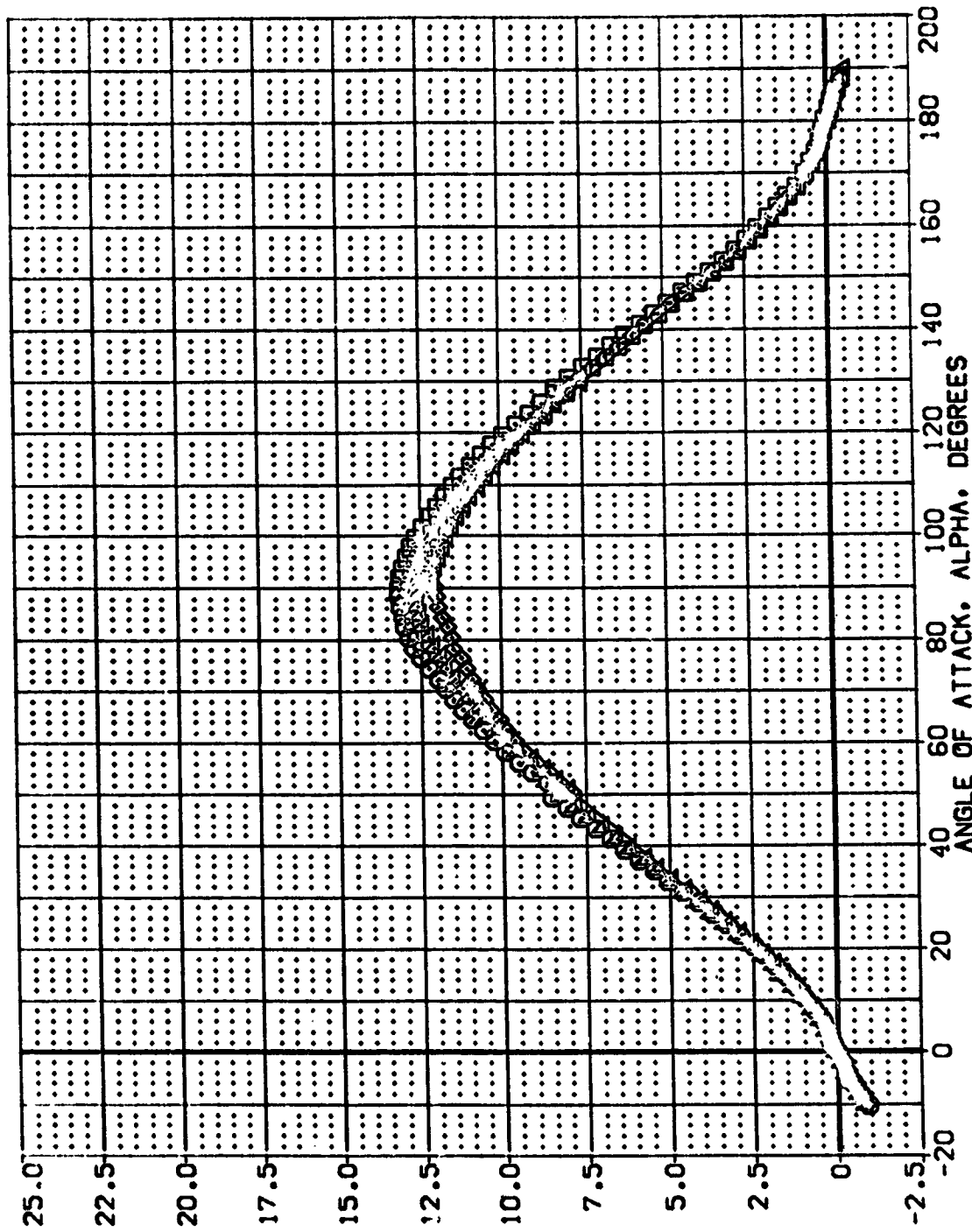


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
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LREF .5000  
BREF .5000  
XREF .6330  
YREF .0000  
ZREF .0000  
SCALE .0074

BETA PHI  
.000 180.000  
.000 180.000  
.000 202.500  
.000 202.500  
.000 225.000  
.000 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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[R57A] 18] C 587 (FA4) TITAN III SRM (NBETP)  
[R57A] 19] C 587 (FA4) TITAN III SRM (NBETP)  
[R57A] 20] C 587 (FA4) TITAN III SRM (NBETP)  
[R57A] 21] C 587 (FA4) TITAN III SRM (NBETP)  
[R57A] 22] C 587 (FA4) TITAN III SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

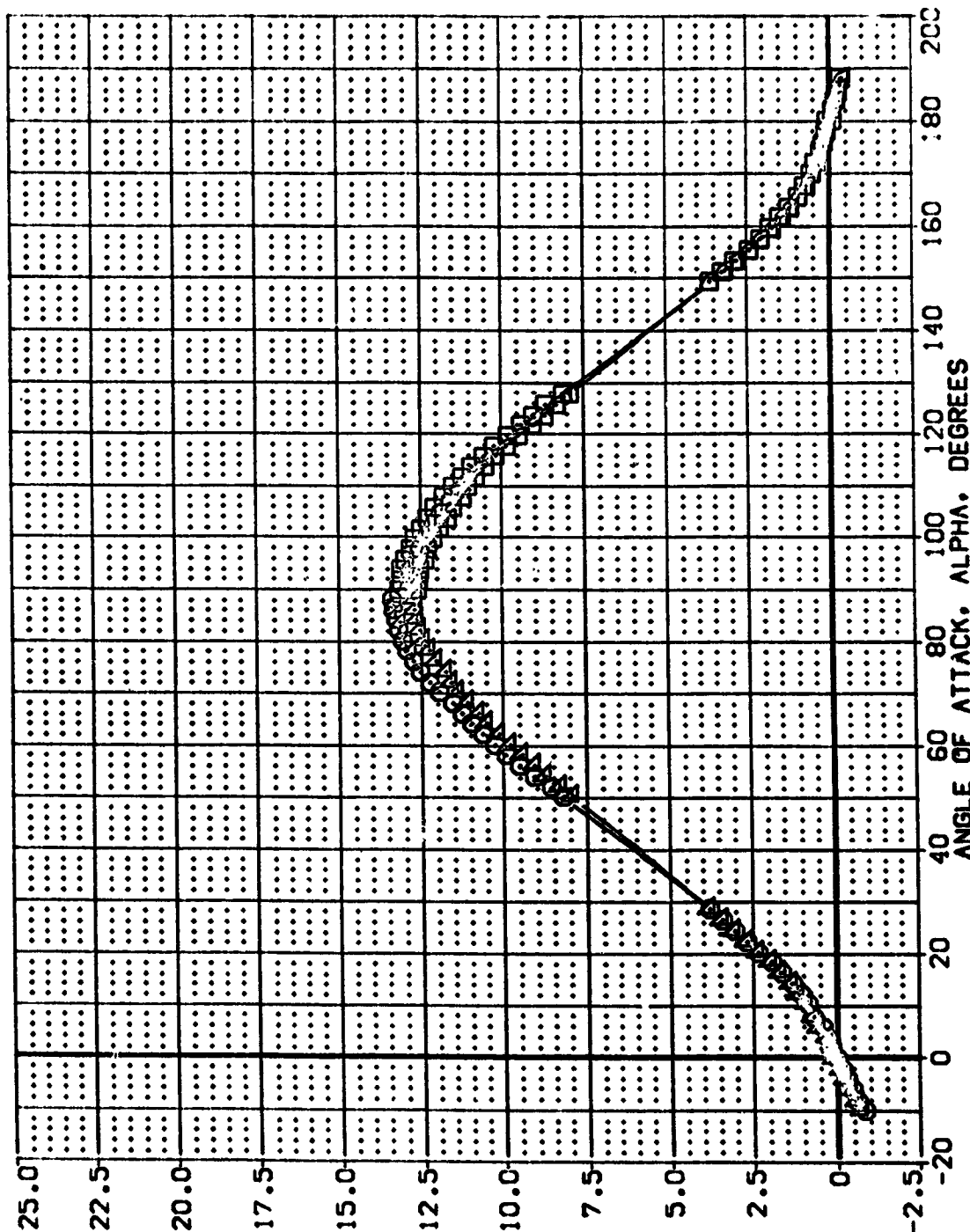
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(E)MACH = 3.48



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

DATA SET SYMBOL: 157A17, 157A18, 157A19, 157A16, 157A13, 157A14

CONFIGURATION DESCRIPTION: MSFC 587(F41) TITAN III C SRM (NBETP), MSFC 587(F41) TITAN III C SRM (NBETP), DATA NOT AVAILABLE, DATA NOT AVAILABLE, MSFC 587(F41) TITAN III C SRM (NBETP), MSFC 587(F41) TITAN III C SRM (NBETP)

BETA PH1: .000 180.000, .000 180.000, .000 202.500, .000 202.500, .000 225.000, .000 225.000

REFERENCE INFORMATION: SREF .6360 SQ. IN, LREF .9000 IN., BREF .9000 IN., XMRP .6330 IN., YMRP .0000 IN., ZMRP .0000 IN., SCALE .0074

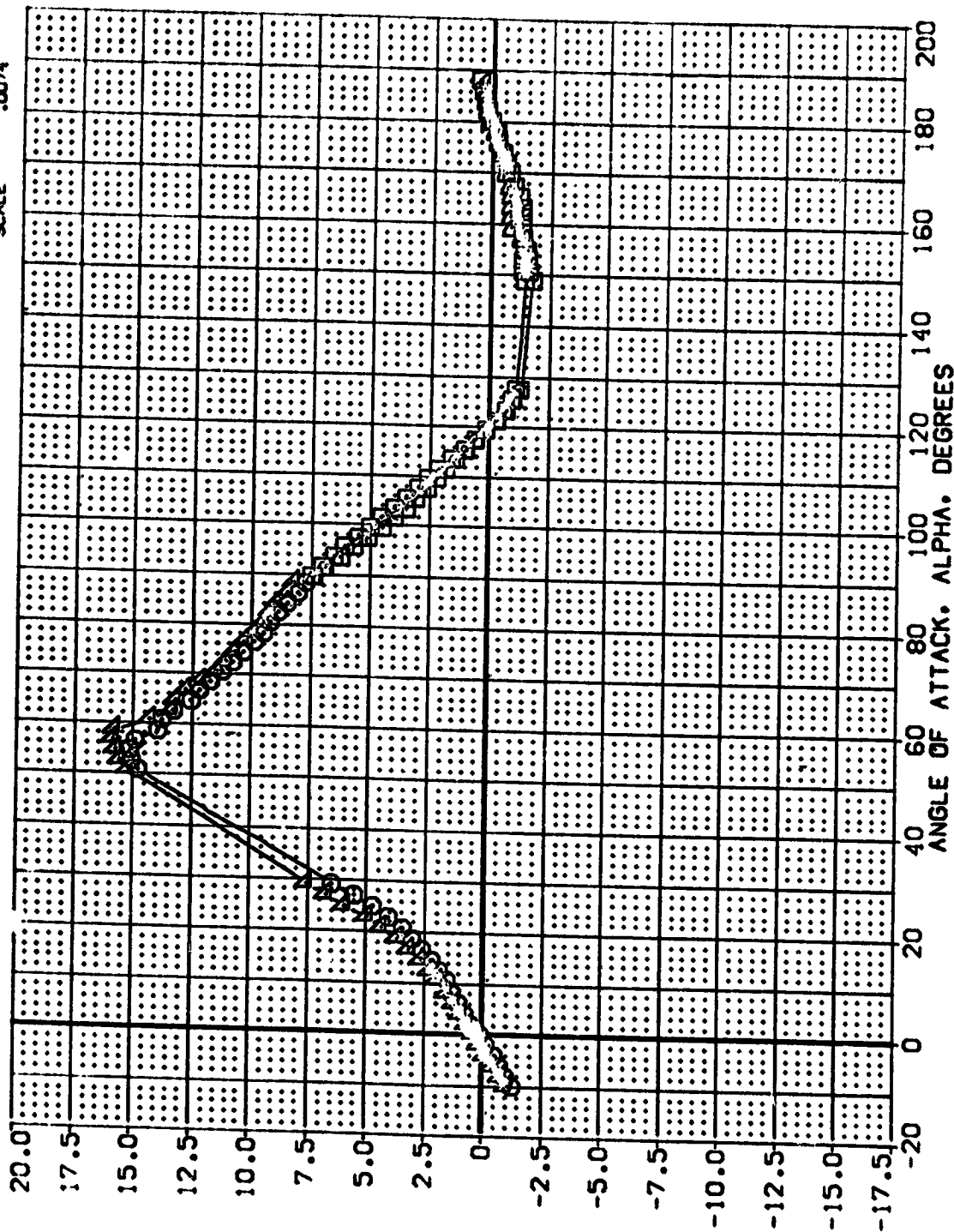




DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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 RSTA 8 } MS C 587(F4) TITAN III C SRM (NBETP)  
 RSTA 5 } DATA NOT AVAILABLE  
 RSTA 6 } DATA NOT AVAILABLE  
 RSTA 3 } MS C 587(F4) TITAN III C SRM (NBETP)  
 RSTA 4 } MS C 587(F4) TITAN III C SRM (NBETP)

BETA PHI  
 .000 180.000  
 .000 180.000  
 .000 180.000  
 .000 202.500  
 .000 202.500  
 .000 225.000  
 .000 225.000

REFERENCE INFORMATION  
 SREF 6360 SQ IN  
 LREF 9000 IN  
 BREF 9000 IN  
 XMRP 4.6300 IN  
 YMRP .0000 IN  
 ZMRP .0000 IN  
 SCALE .0074



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLMM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

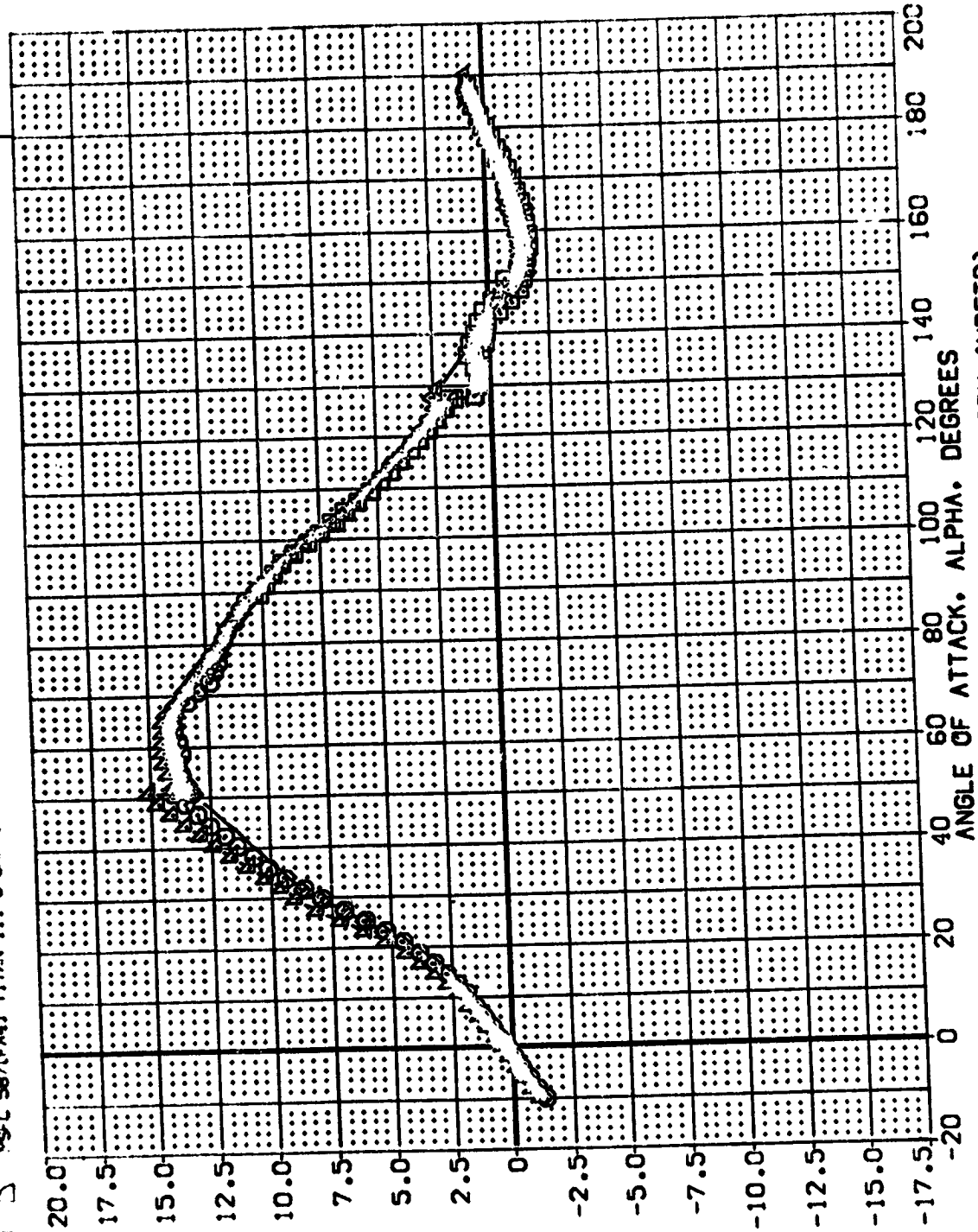


REFERENCE INFORMATION  
SREF 6360  
LREF 9000  
BREF 9000  
XMRP 4.6300  
YMRP 0.0000  
ZMRP 0.0000  
SCALE 0.0074

BETA PH  
0.00 180.000  
0.00 180.000  
0.00 202.500  
0.00 202.500  
0.00 225.000  
0.00 225.000

DATA SET SYMBOL  
[977A] [7]  
[977A] [8]  
[977A] [5]  
[977A] [6]  
[977A] [13]  
[977A] [14]

CONFIGURATION DESCRIPTION  
[587] [FA4] TITAN [SRM] [NBETP]  
[587] [FA4] TITAN [SRM] [NBETP]  
[587] [FA4] TITAN [SRM] [NBETP]  
[587] [FA4] TITAN [SRM] [NBETP]  
[587] [FA4] TITAN [SRM] [NBETP]  
[587] [FA4] TITAN [SRM] [NBETP]

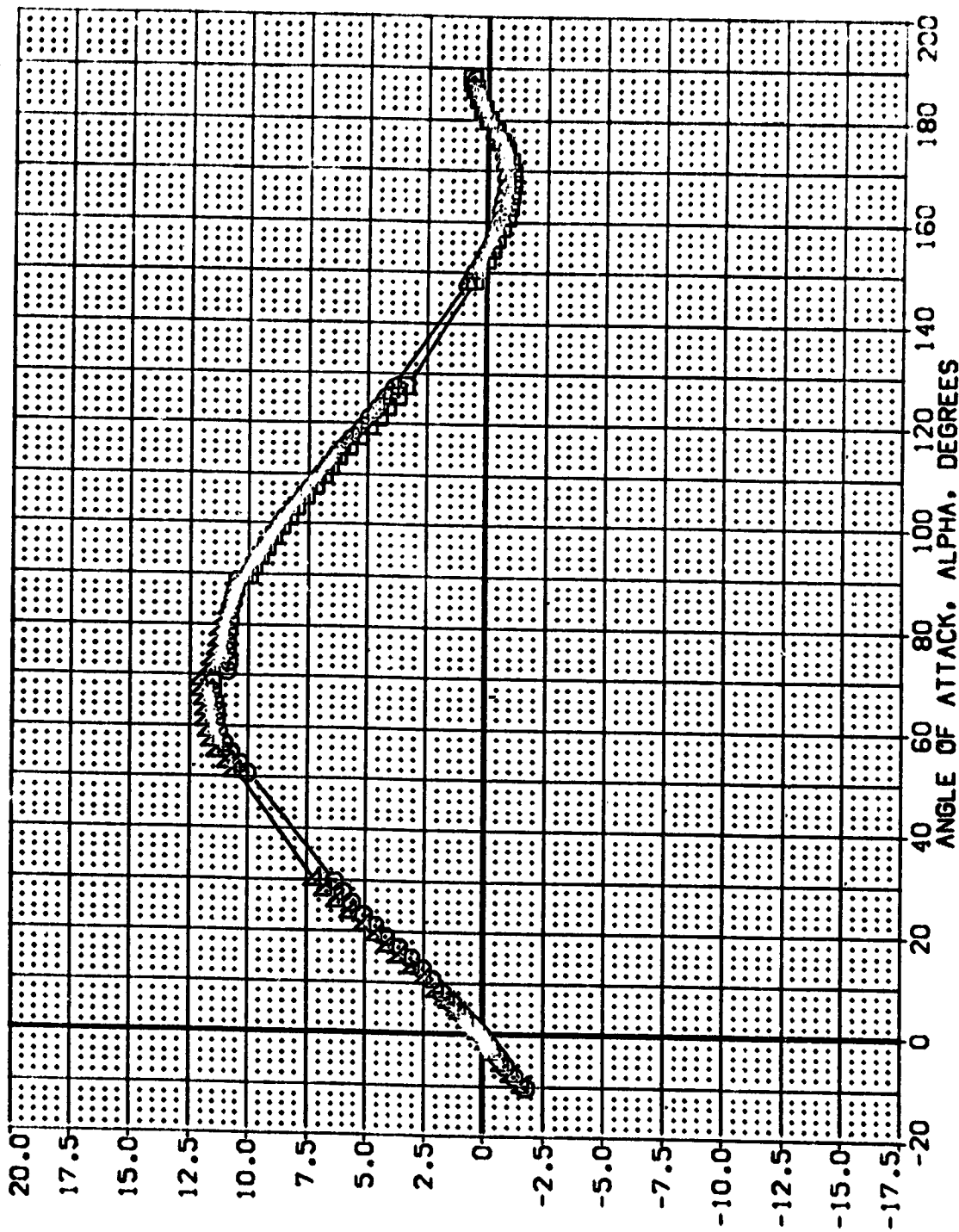


LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.19



DATA SET SYMBOL: 018  
CONFIGURATION DESCRIPTION: MSFC 567(PA4) TITAN III C SRM (NBETP)  
MSFC 567(PA4) TITAN III C SRM (NBETP)  
DATA NOT AVAILABLE  
MSFC 567(PA4) TITAN III C SRM (NBETP)  
MSFC 567(PA4) TITAN III C SRM (NBETP)  
BETA PH: .000 180.000  
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.000 202.500  
.000 202.500  
.000 225.000  
REFERENCE INFORMATION: SREF .6350 SO. IN  
LREF .9000 IN.  
BREF .9000 IN.  
XMRP 4.6330 IN.  
YMRP .0000 IN.  
ZMRP .0000 IN.  
SCALE .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

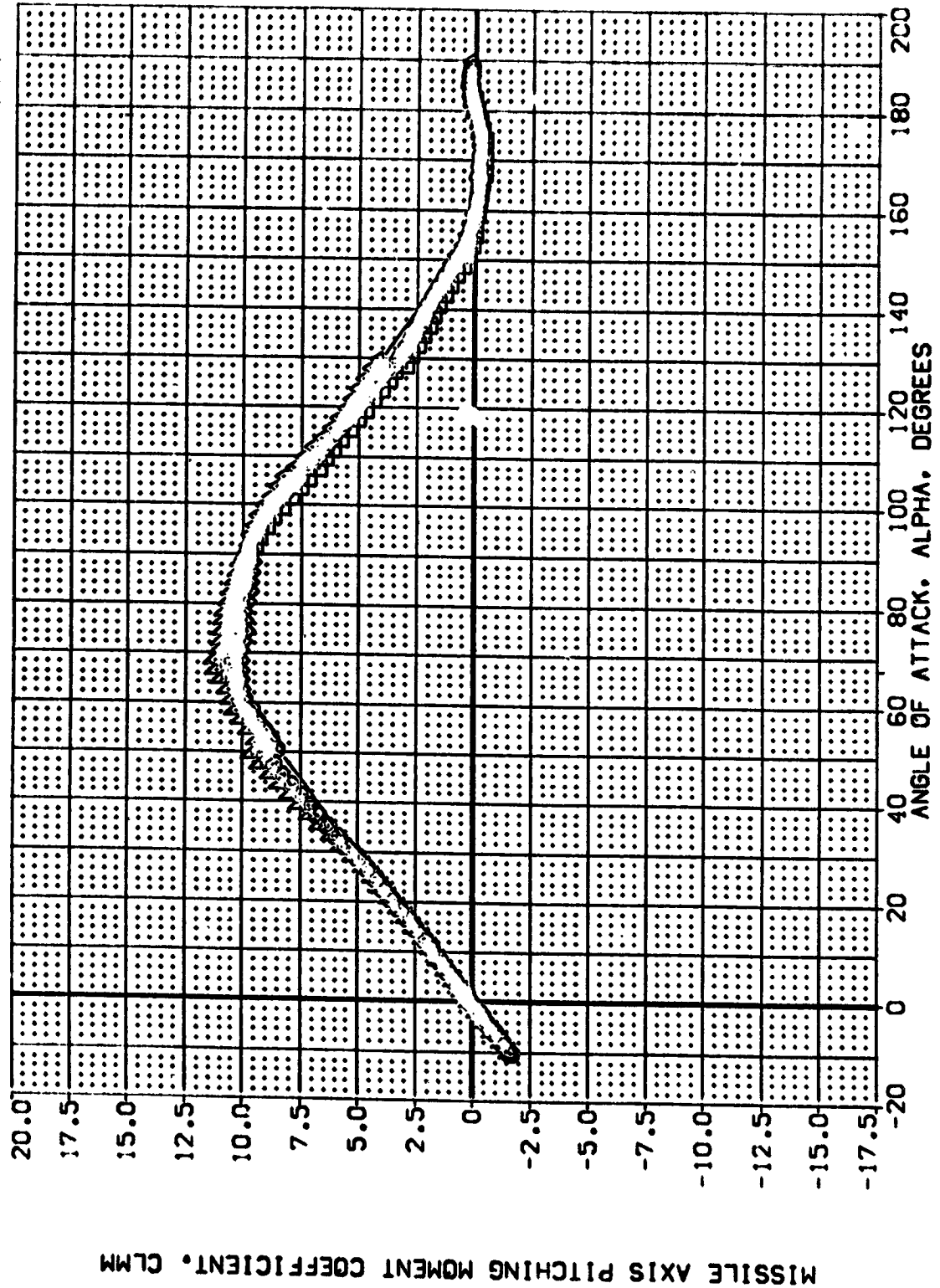
COMACH = 1.96

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
SREF 6360  
LREF 9000  
BREF 9000  
XMRP 4.6330  
YMRP .0000  
ZMRP .0000  
SCALE .0074

BETA (PH)  
.00 180.000  
.00 180.000  
.00 180.000  
.00 202.500  
.00 202.500  
.00 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
R57A 7] MS C 587(FA4) TITAN III C SRM (NBETP)  
R57A 8] MS C 587(FA4) TITAN III C SRM (NBETP)  
R57A 5] MS C 587(FA4) TITAN III C SRM (NBETP)  
R57A 6] MS C 587(FA4) TITAN III C SRM (NBETP)  
R57A 3] MS C 587(FA4) TITAN III C SRM (NBETP)  
R57A 4] MS C 587(FA4) TITAN III C SRM (NBETP)



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 3.48

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    PHI    REFERENCE INFORMATION

MSFC 587(F44) TITAN III C SRM (NBETP)    .000    180.000    SREF    .6360    SQ IN

MSFC 587(F44) TITAN III C SRM (NBETP)    .000    180.000    LREF    .9000    T.N.

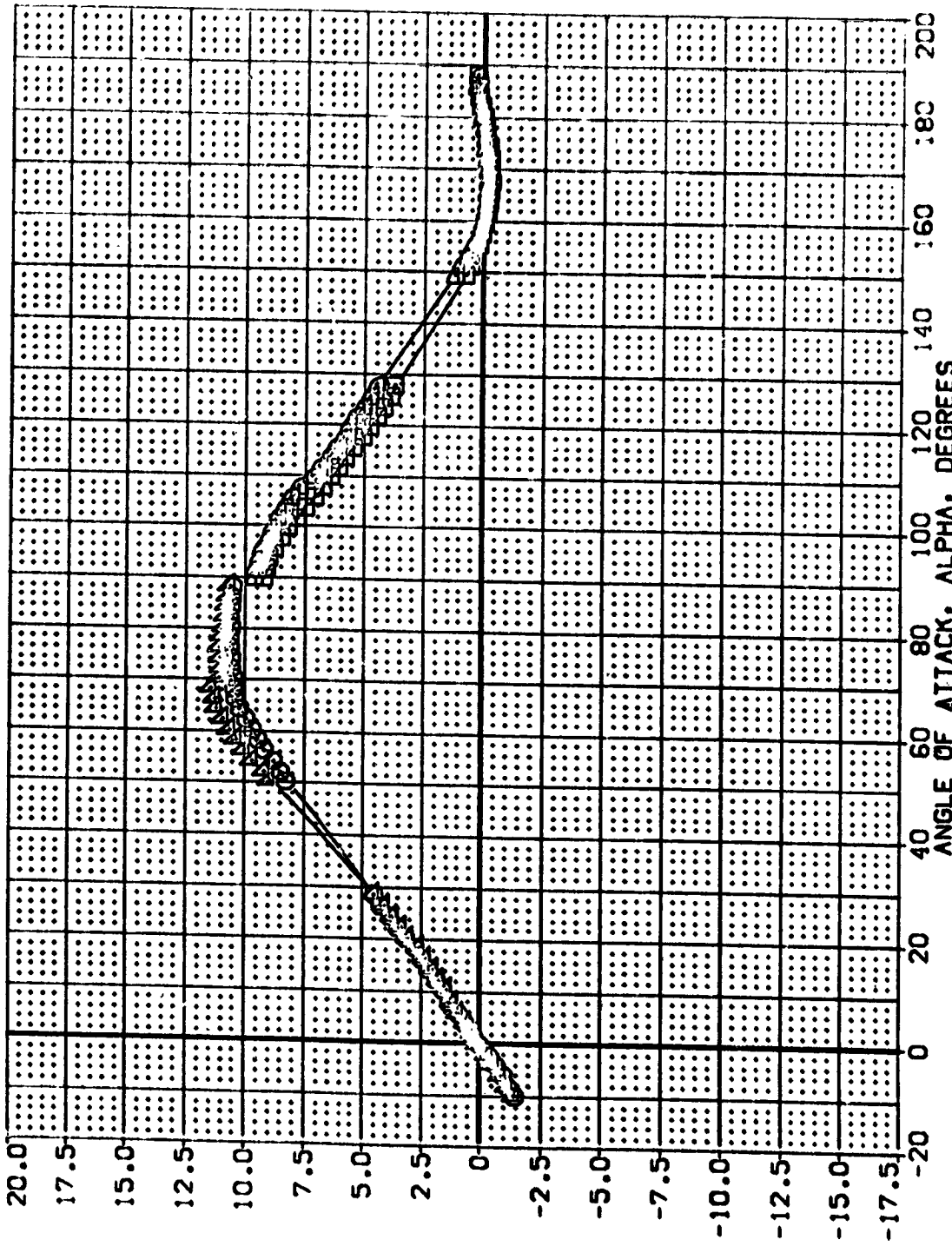
DATA NOT AVAILABLE    .000    202.500    BREF    .9000    T.N.

MSFC 587(F44) TITAN III C SRM (NBETP)    .000    202.500    XREF    .9000    T.N.

MSFC 587(F44) TITAN III C SRM (NBETP)    .000    225.000    YREF    .9000    T.N.

MSFC 587(F44) TITAN III C SRM (NBETP)    .000    225.000    ZREF    .9000    T.N.

SCALE    .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CFMACH = 4.96

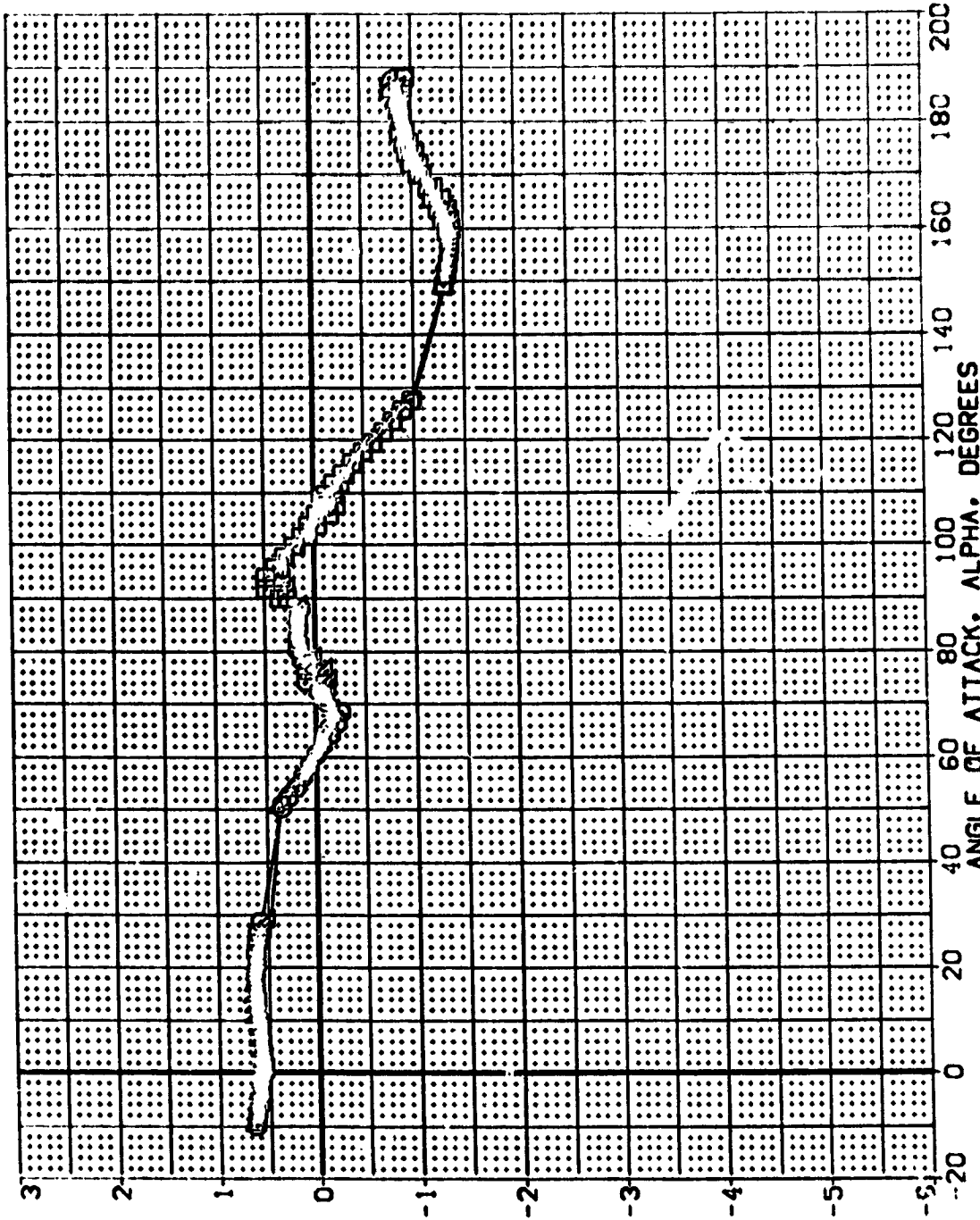


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
SREF 5360  
LREF 5000  
BREF 5000  
XREF 4.6330  
YREF 5000  
ZREF 5000  
SCALE 0074

BETA PHI  
.000 180.000  
.000 180.000  
.000 202.500  
.000 202.500  
.000 225.000  
.000 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
PS7A 17 1 MSFC 587(F44) TITAN III C SRM (NBETP)  
PS7A 18 1 MSFC 587(F44) TITAN III C SRM (NBETP)  
PS7A 19 1 DATA NOT AVAILABLE  
PS7A 20 1 DATA NOT AVAILABLE  
PS7A 21 1 MSFC 587(F44) TITAN III C SRM (NBETP)  
PS7A 22 1 MSFC 587(F44) TITAN III C SRM (NBETP)



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CA/MACH = .59

DATA SET SYMBOL CONFIGURATION DESCRIPTION

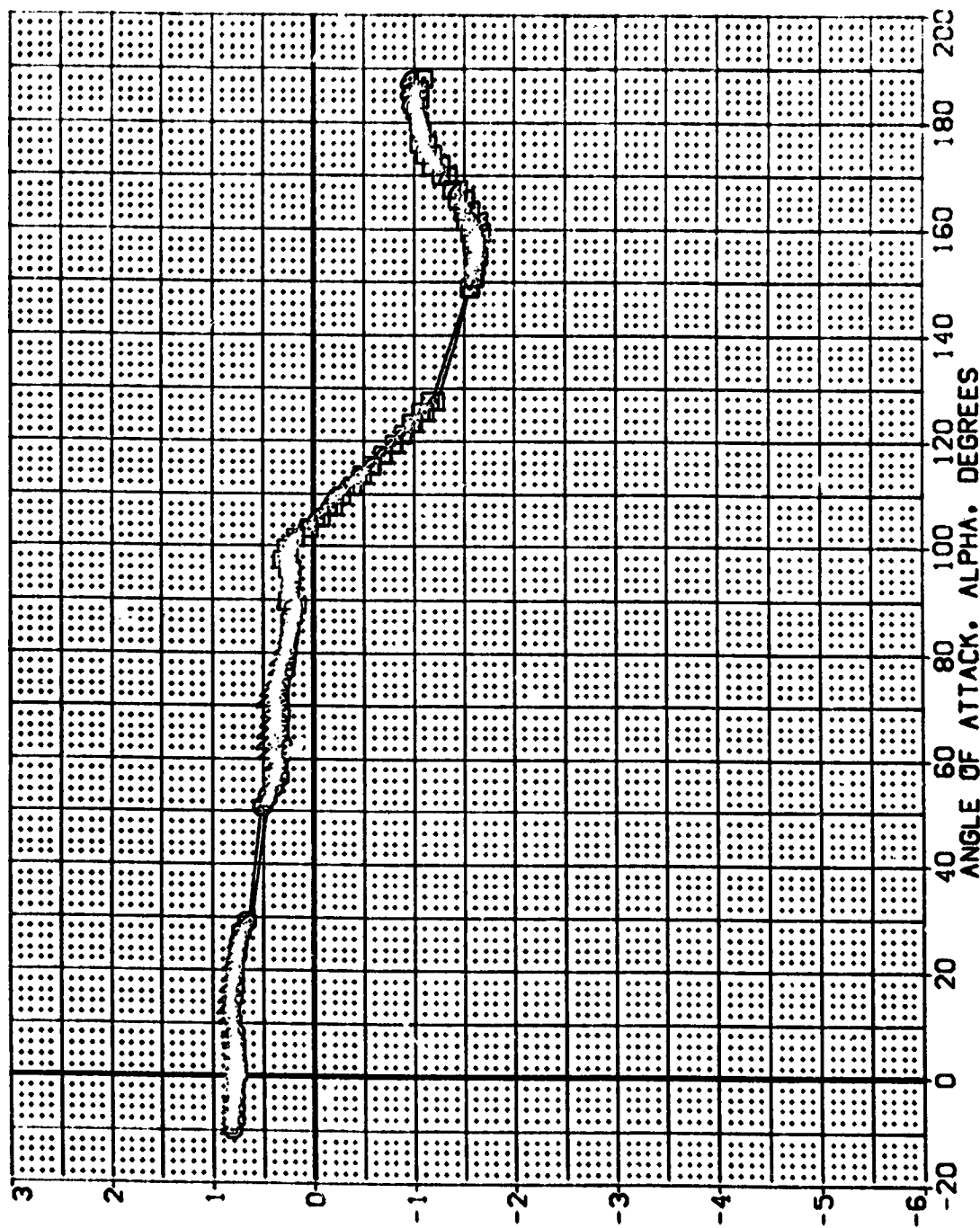
REF A: 7	MSFC 587(F4)	TITAN III	C SRM (NBETP)
REF A: 8	MSFC 587(F4)	TITAN III	C SRM (NBETP)
REF A: 5	DATA NOT AVAILABLE		
REF A: 6	DATA NOT AVAILABLE		
REF A: 3	MSFC 587(F4)	TITAN III	C SRM (NBETP)
REF A: 4	MSFC 587(F4)	TITAN III	C SRM (NBETP)

BETA PHI

.000	180.000
.000	180.000
.000	202.500
.000	202.500
.000	225.000
.000	225.000

REFERENCE INFORMATION

SREF	.6360	IN
LREF	.5000	IN
BREF	.5000	IN
XMRRP	4.6330	IN
YMRRP	.0000	IN
ZMRRP	.0000	IN
SCALE	.0074	



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90





AXIAL FORCE COEFFICIENT, CA

[illegible]

**[[C]MACH = 1.19**

DATA SET SYMBOL CONFIGURATION DESCRIPTION

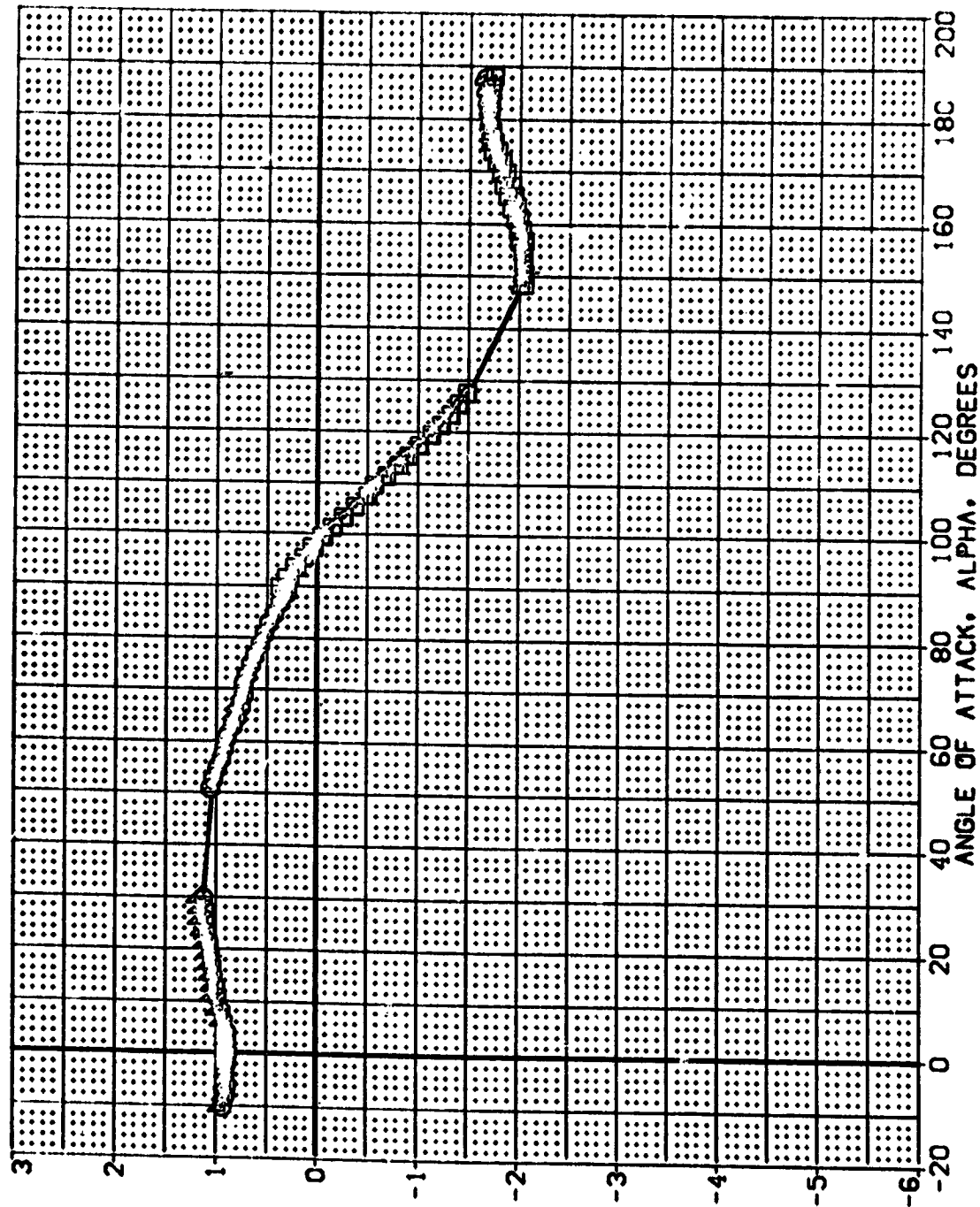
MS C 587 (FA4)	TITAN III	C SRM (NBETP)
MS C 587 (FA4)	TITAN III	C SRM (NBETP)
DATA NOT AVAILABLE		
MS C 587 (FA4)	TITAN III	C SRM (NBETP)
MS C 587 (FA4)	TITAN III	C SRM (NBETP)

BETA RH

.000	180.000
.000	180.000
.000	202.500
.000	202.500
.000	225.000
.000	225.000

REFERENCE INFORMATION

SREF	.6360	IN
LREF	.9000	IN
BREF	.9000	IN
XMRP	.6330	IN
YMRP	.0000	IN
ZMRP	.0000	IN
SCALE	.0074	



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CDMACH = 1.96

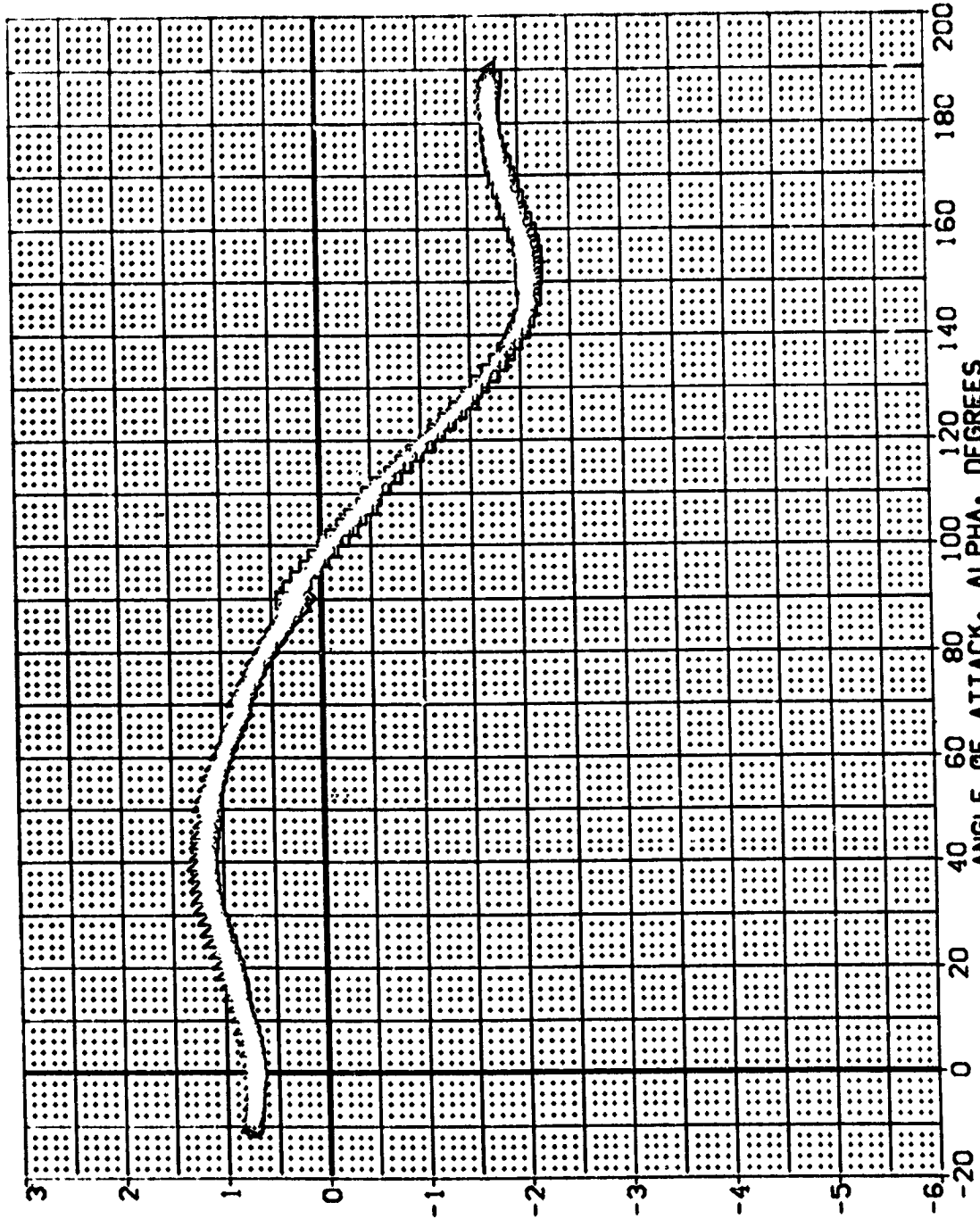
PAGE 40

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
SREF .6360  
LREF .9000  
BREF .9000  
XMRP 4.6330  
YMRP .0000  
ZMRP .0000  
SCALE .0074

BETA PHJ  
.000 180.000  
.000 180.000  
.000 202.500  
.000 202.500  
.000 225.000  
.000 225.000

DATA SET SINGL CONFIGURATION DESCRIPTION  
15 C C C C C SRM (NBETP)  
15 C C C C C SRM (NBETP)  
15 C C C C C SRM (NBETP)  
15 C C C C C SRM (NBETP)  
15 C C C C C SRM (NBETP)  
15 C C C C C SRM (NBETP)  
15 C C C C C SRM (NBETP)



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

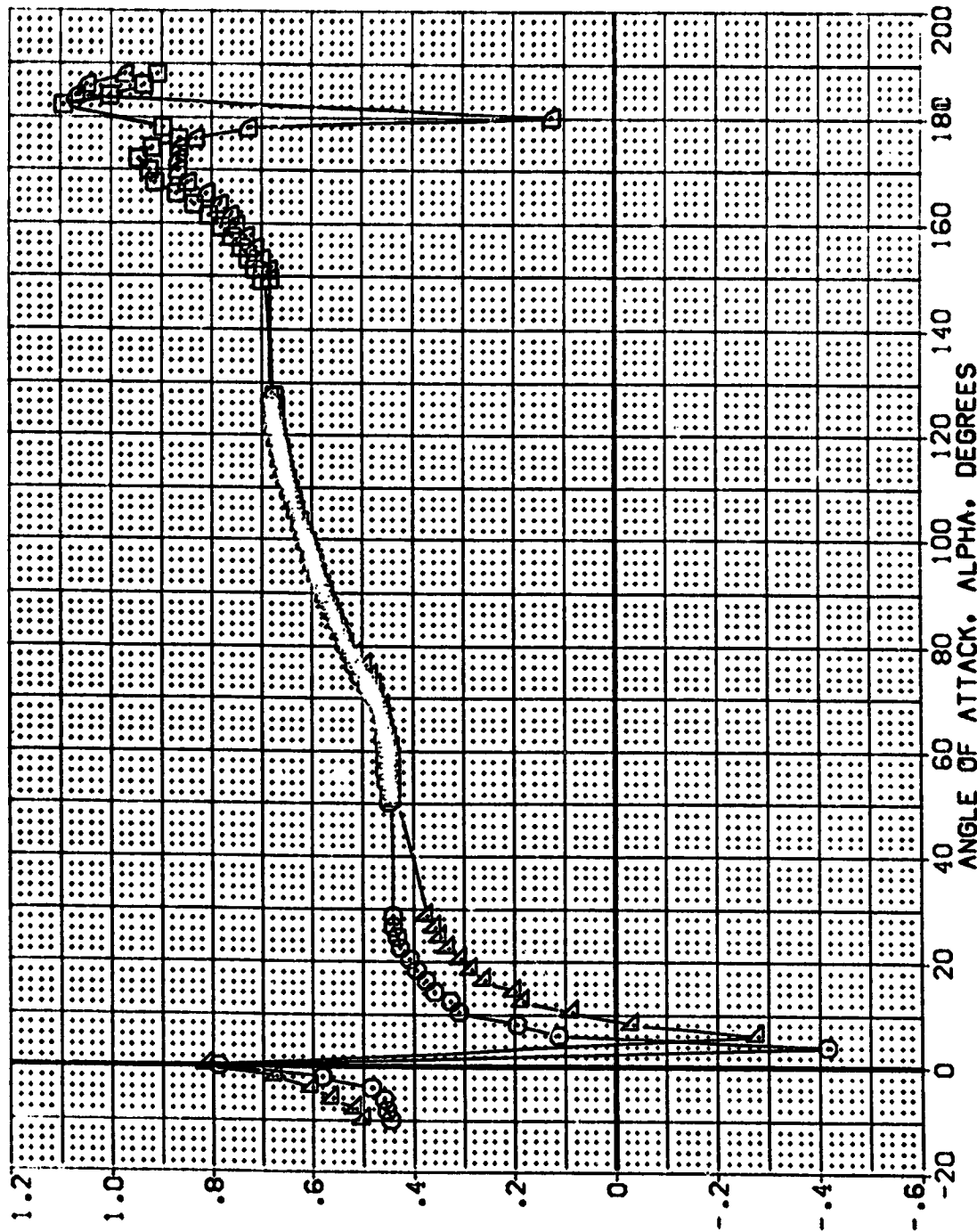
(E)MACH = 3.48



REFERENCE INFORMATION  
SREF 6360 IN  
LREF 8000 IN  
BREF 9000 IN  
XMRP 6330 IN  
YMRP 0000 IN  
ZMRP 0000 IN  
SCALE 0074

BETA FwI  
000 180.000  
000 180.000  
000 202.500  
000 202.500  
000 275.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
RSTA17 MSC C 587(F44) TITAN III C SRM (NBETP)  
RSTA18 MSC C 587(F44) TITAN III C SRM (NBETP)  
RSTA19 DATA NOT AVAILABLE  
RSTA16 MSC C 587(F44) TITAN III C SRM (NBETP)  
RSTA13 MSC C 587(F44) TITAN III C SRM (NBETP)  
RSTA14 MSC C 587(F44) TITAN III C SRM (NBETP)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

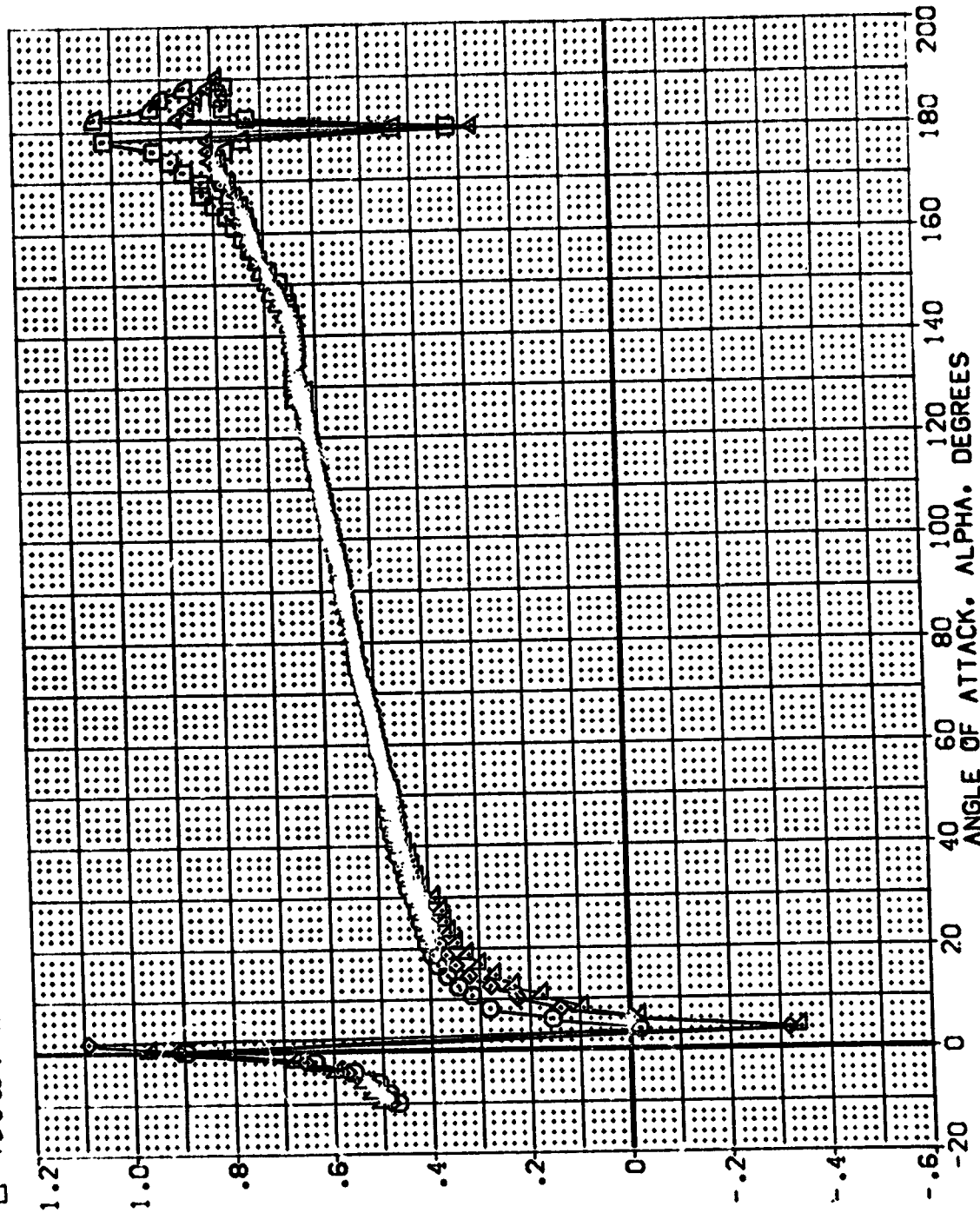
(M)MACH = .59



REFERENCE INFORMATION  
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LREF .5000  
BREF .5000  
XMRP .6330  
YMRP .0000  
ZMRP .0000  
SCALE .0074

BETA PHI  
.000 180.000  
.000 180.000  
.000 202.500  
.000 202.500  
.000 225.000  
.000 225.000

DATA SET 5130  
[R57A 7]  
[R57A 8]  
[R57A 5]  
[R57A 3]  
[R57A 4]  
CONFIGURATION DESCRIPTION  
MSC 587(F4) TITAN SRM (NBETP)  
MSC 587(F4) TITAN SRM (NBETP)  
MSC 587(F4) TITAN SRM (NBETP)  
MSC 587(F4) TITAN SRM (NBETP)  
MSC 587(F4) TITAN SRM (NBETP)  
MSC 587(F4) TITAN SRM (NBETP)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

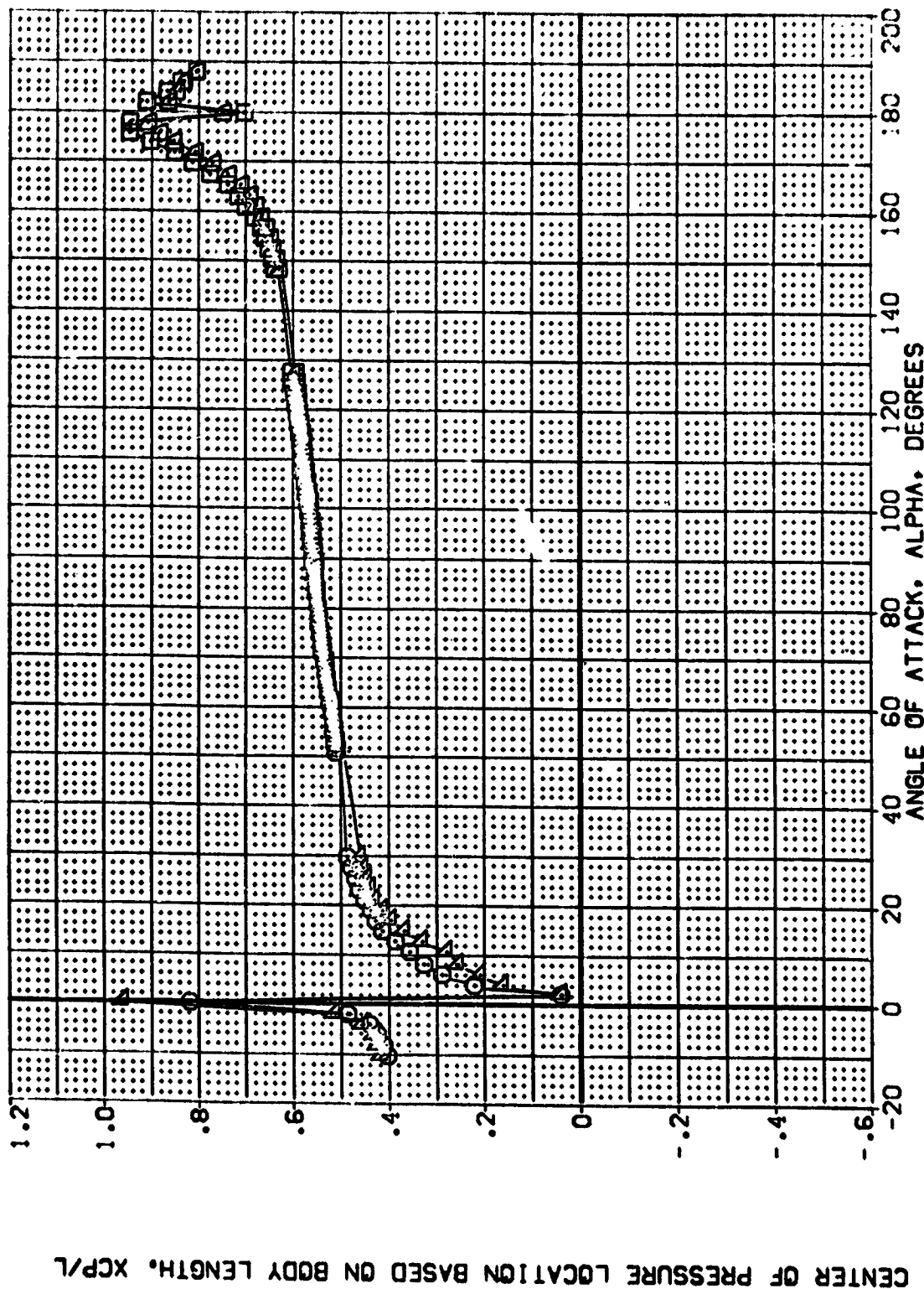
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.19



DATA SET SYMBO. CONFIGURATION DESCRIPTION BETA PHI REFERENCE INFORMATION

[R57A17]	M5C 587(F44) TITAN III C SRM (NBETP)	.000	180.000	SREF	.6360	SO. IN
[R57A18]	M5C 587(F44) TITAN III C SRM (NBETP)	.000	180.000	LREF	.5000	IN.
[R57A15]	DATA NOT AVAILABLE	.000	202.500	BREF	.5000	IN.
[R57A16]	DATA NOT AVAILABLE	.000	202.500	VMRP	4.6330	IN.
[R57A13]	M5C 587(F44) TITAN III C SRM (NBETP)	.000	225.000	ZMRP	.0000	IN.
[R57A14]	M5C 587(F44) TITAN III C SRM (NBETP)	.000	225.000	SCALE	.0074	



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(O)MACH = 1.96

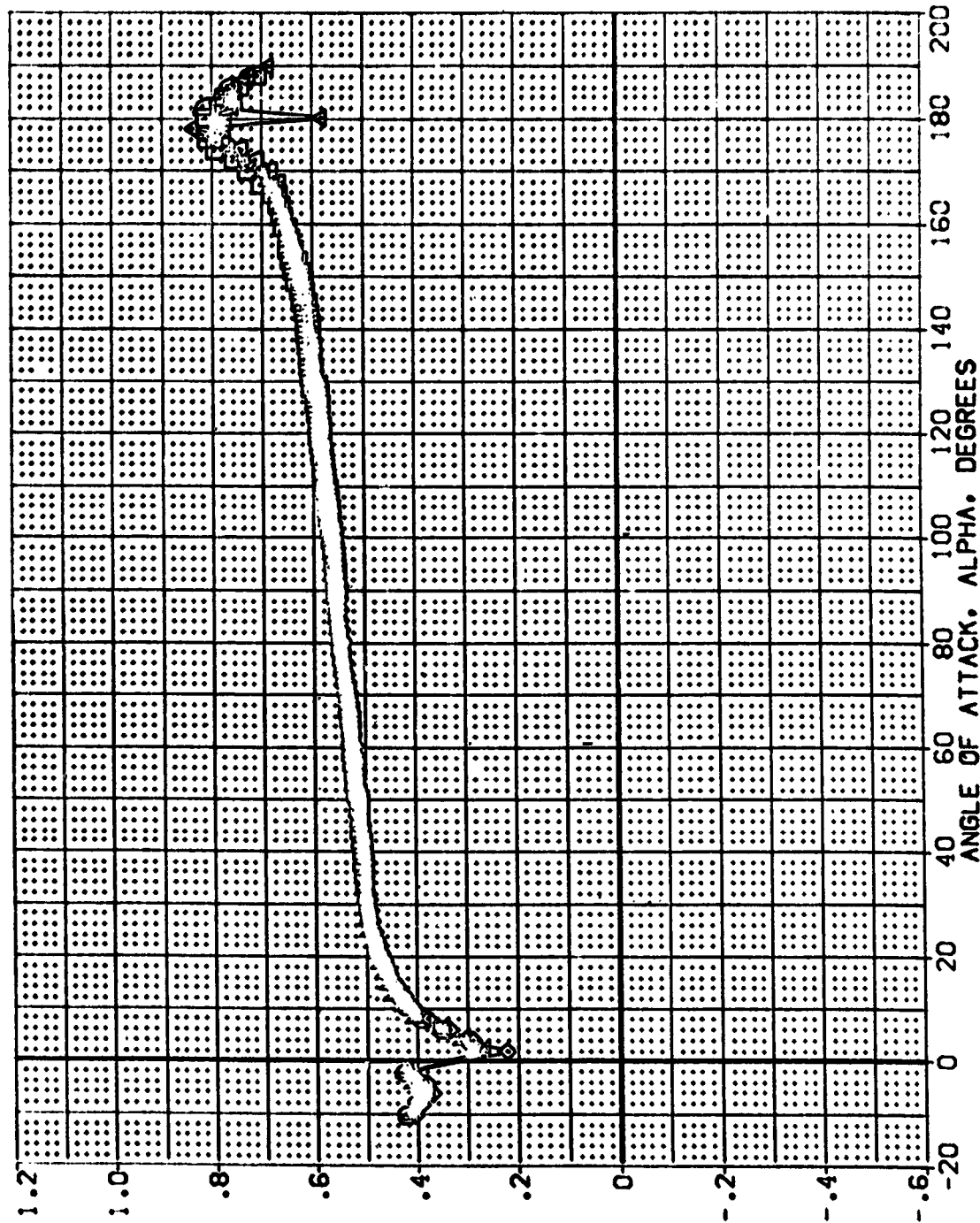


REFERENCE INFORMATION	
SREF	.6360
LREF	.9100
BREF	.9100
X1-RP	4.6330
Y1-RP	.0000
Z1-RP	.0000
SCALE	.0074

BETA	PHI
000.000	180.000
000.000	180.000
000.000	202.500
000.000	202.500
000.000	225.000
000.000	225.000

[illegible]

CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L



# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

**(E)MACH = 3.48**

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    PHI    REFERENCE INFORMATION    SO. IN

MSFC 587(F4)    TITAN III C SRM (NBETP)    .000    180.000    SREF    .6360    IN.

MSFC 587(F4)    TITAN III C SRM (NBETP)    .000    180.000    LREF    .5000    IN.

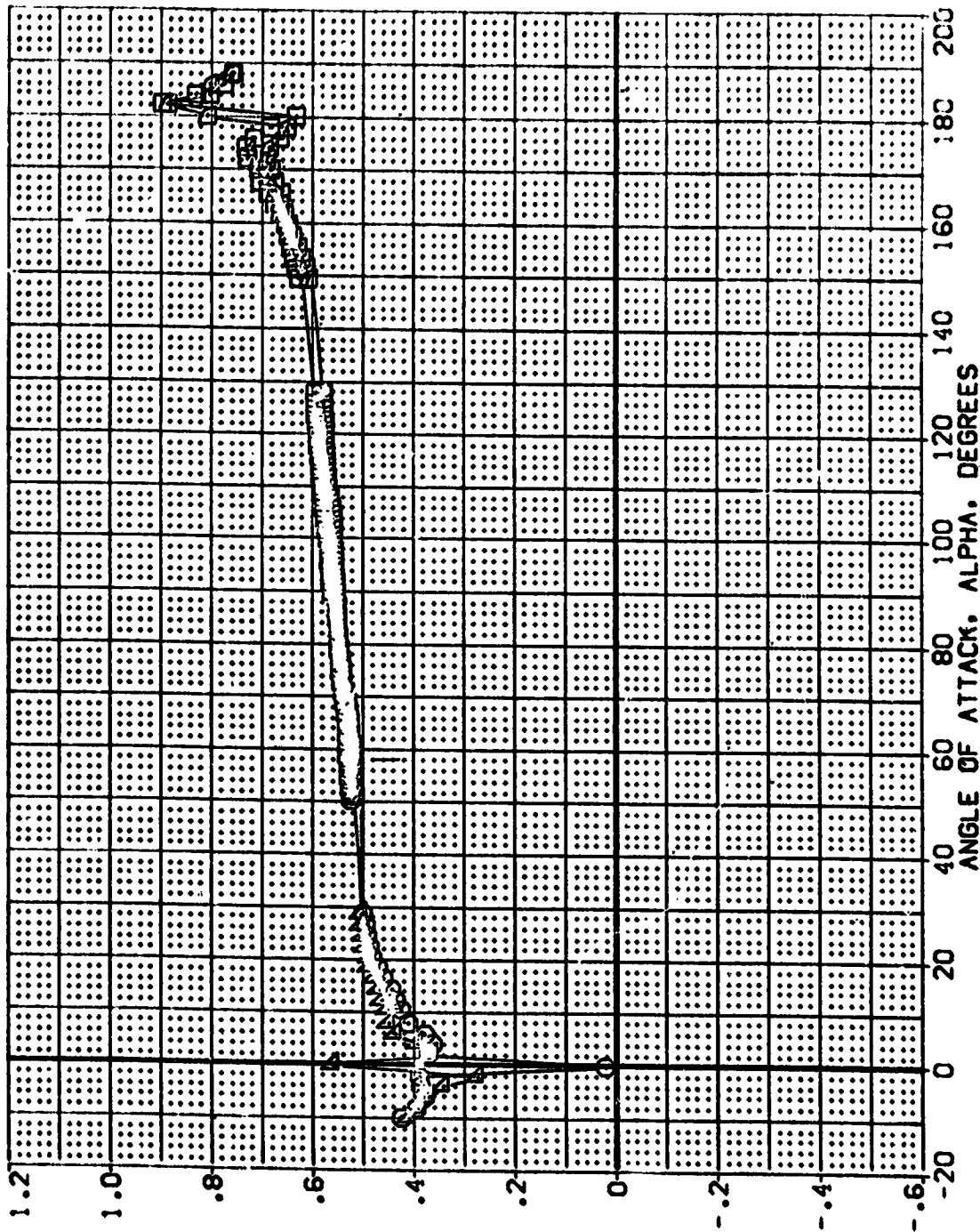
MSFC 587(F4)    TITAN III C SRM (NBETP)    .000    202.500    BREF    .5000    IN.

DATA NOT AVAILABLE    .000    202.500    XMRP    4.6330    IN.

MSFC 587(F4)    TITAN III C SRM (NBETP)    .000    225.000    YMRP    .0000    IN.

MSFC 587(F4)    TITAN III C SRM (NBETP)    .000    225.000    ZMRP    .0000    IN.

SCALE    .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

PAGE 48

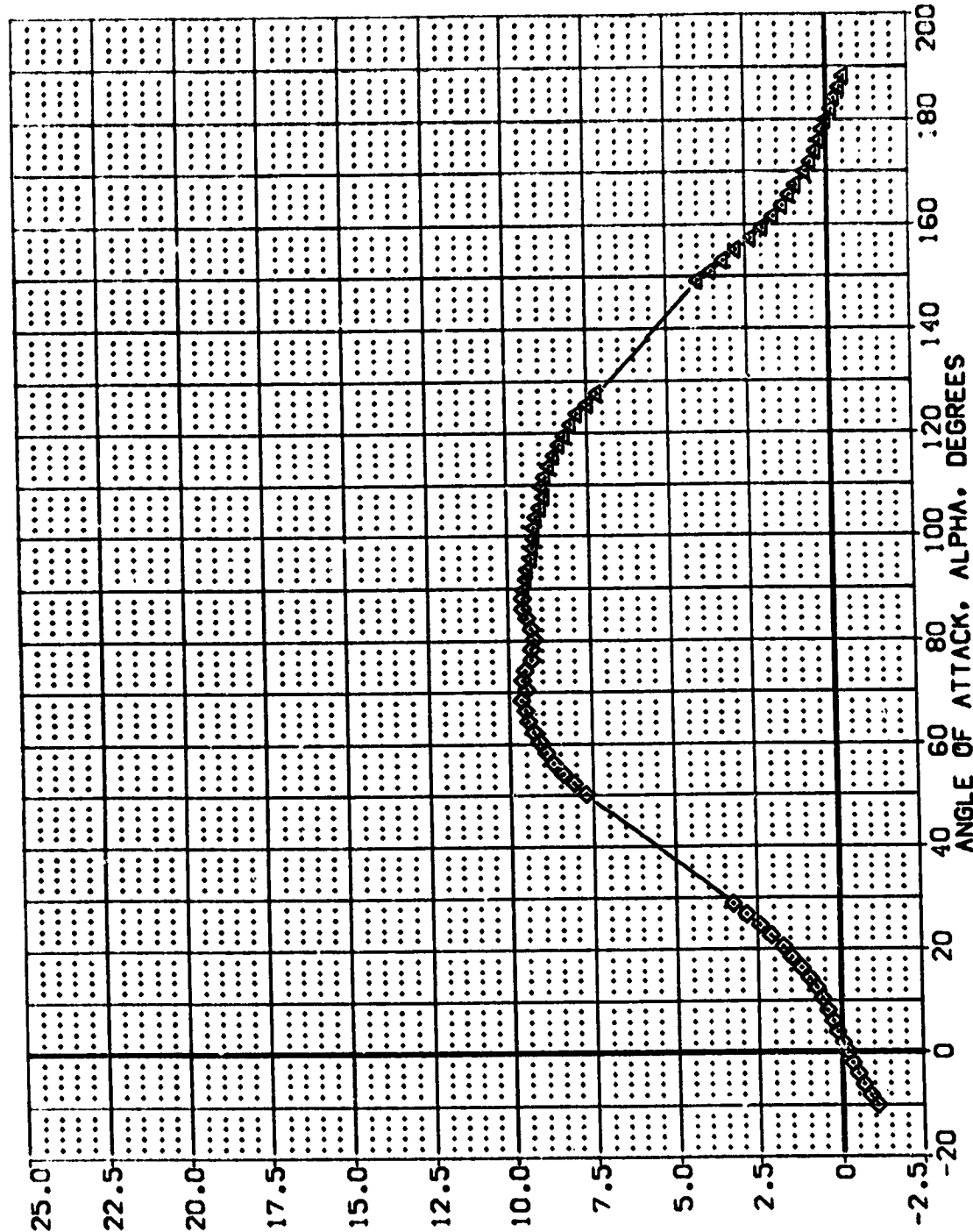


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
SREF .6360  
LREF .8000  
BREF .8000  
XMRP 4.6360  
YMRP .0000  
ZMRP .0000  
SCALE .0074

BETA PHI  
.000 247.500  
.000 247.500  
.000 270.000  
.000 270.000  
.000 292.500  
.000 292.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
[57A11] DATA NOT AVAILABLE  
[57A12] DATA NOT AVAILABLE  
[57A13] SSC 587(FA4) TITAN III C SRM (NBETP)  
[57A14] SSC 587(FA4) TITAN III C SRM (NBETP)  
[57A15] DATA NOT AVAILABLE  
[57A16] DATA NOT AVAILABLE



MISSILE AXIS NORMAL FORCE COEFFICIENT, Cn

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[P57A11] DATA NOT AVAILABLE

[P57A12] DATA NOT AVAILABLE

[P57A23] M5C 587(F4) TITAN III C SRM (NBETP)

[P57A10] M5C 587(F4) TITAN III C SRM (NBETP)

[P57A27] DATA NOT AVAILABLE

[P57A28] DATA NOT AVAILABLE

BETA PHI

.000 247.500

.000 247.500

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.000 292.500

.000 292.500

REFERENCE INFORMATION

SREF .6360

LREF .6000

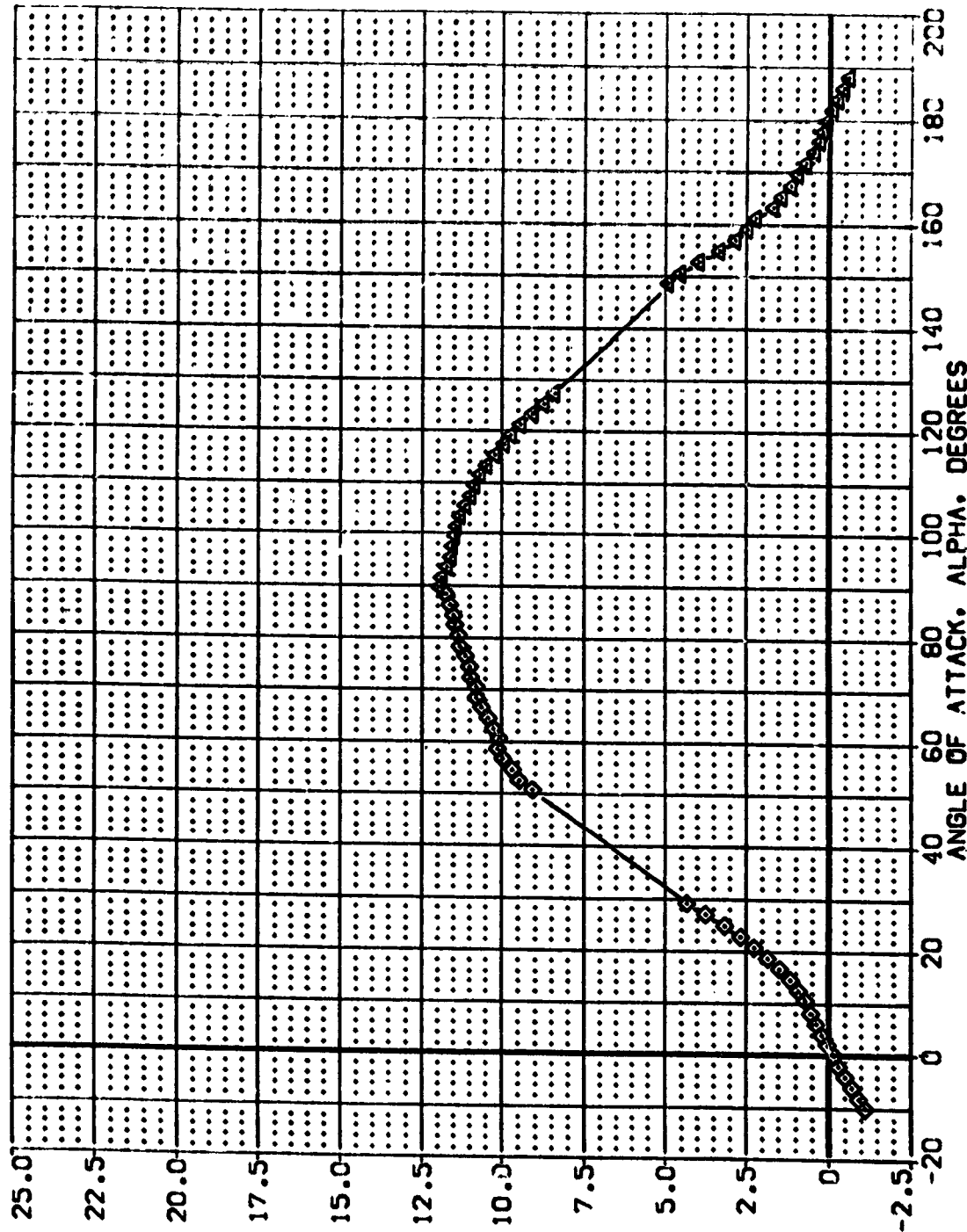
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AMP .4.6360

YMRP .0000

ZMRP .0000

SCALE .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

PAGE 50



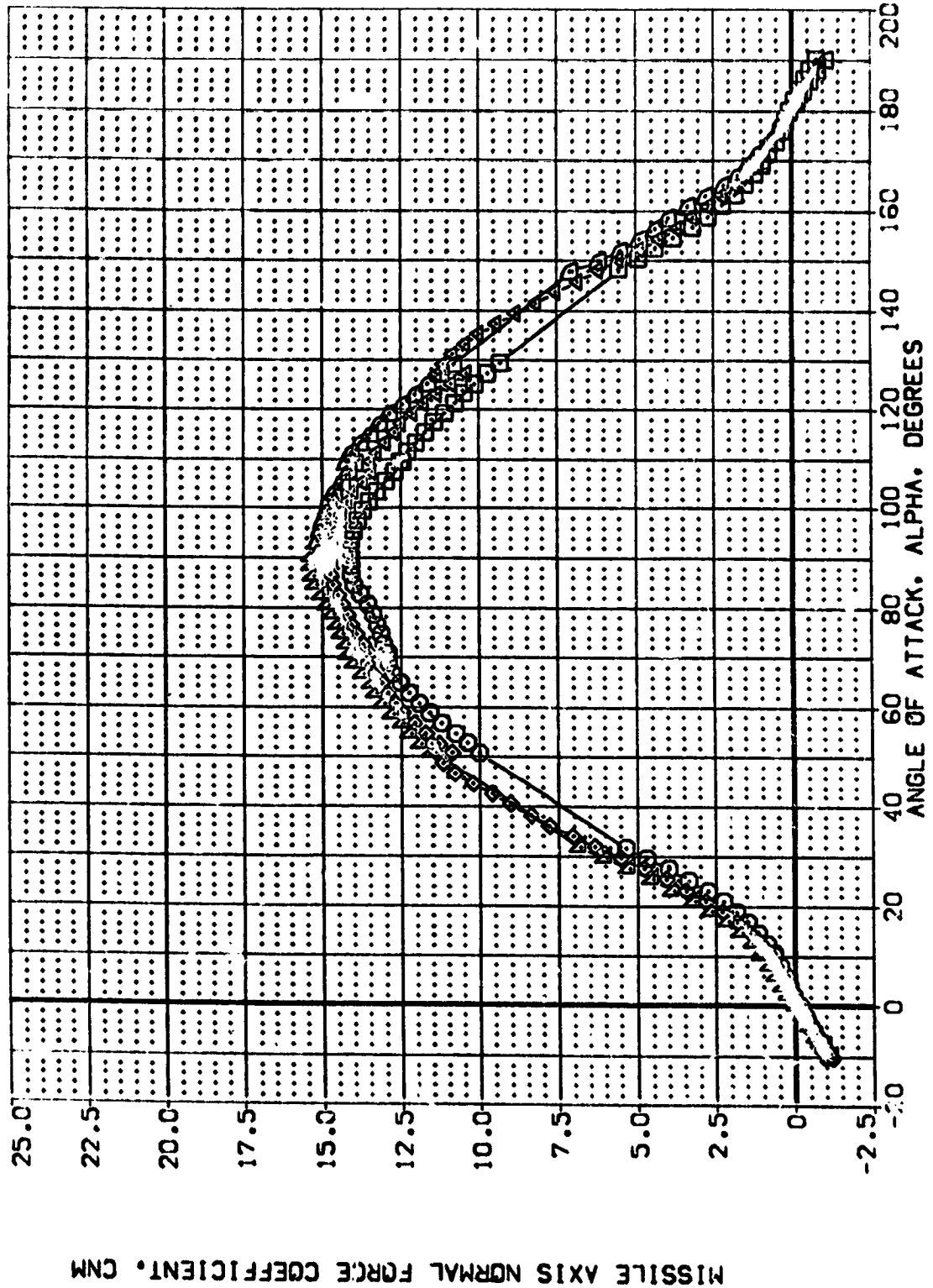
REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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LREF  
BREF  
YMRP  
ZMRP  
SCALE

REFERENCE INFORMATION  
SREF  
LREF  
BREF  
YMRP  
ZMRP  
SCALE

BETA  
PMI  
247.500  
247.500  
247.500  
247.500  
247.500  
247.500

CONFIGURATION DESCRIPTION  
TITAN III C SRM (NBETP)  
TITAN III C SRM (NBETP)  
TITAN III C SRM (NBETP)  
TITAN III C SRM (NBETP)  
TITAN III C SRM (NBETP)  
TITAN III C SRM (NBETP)



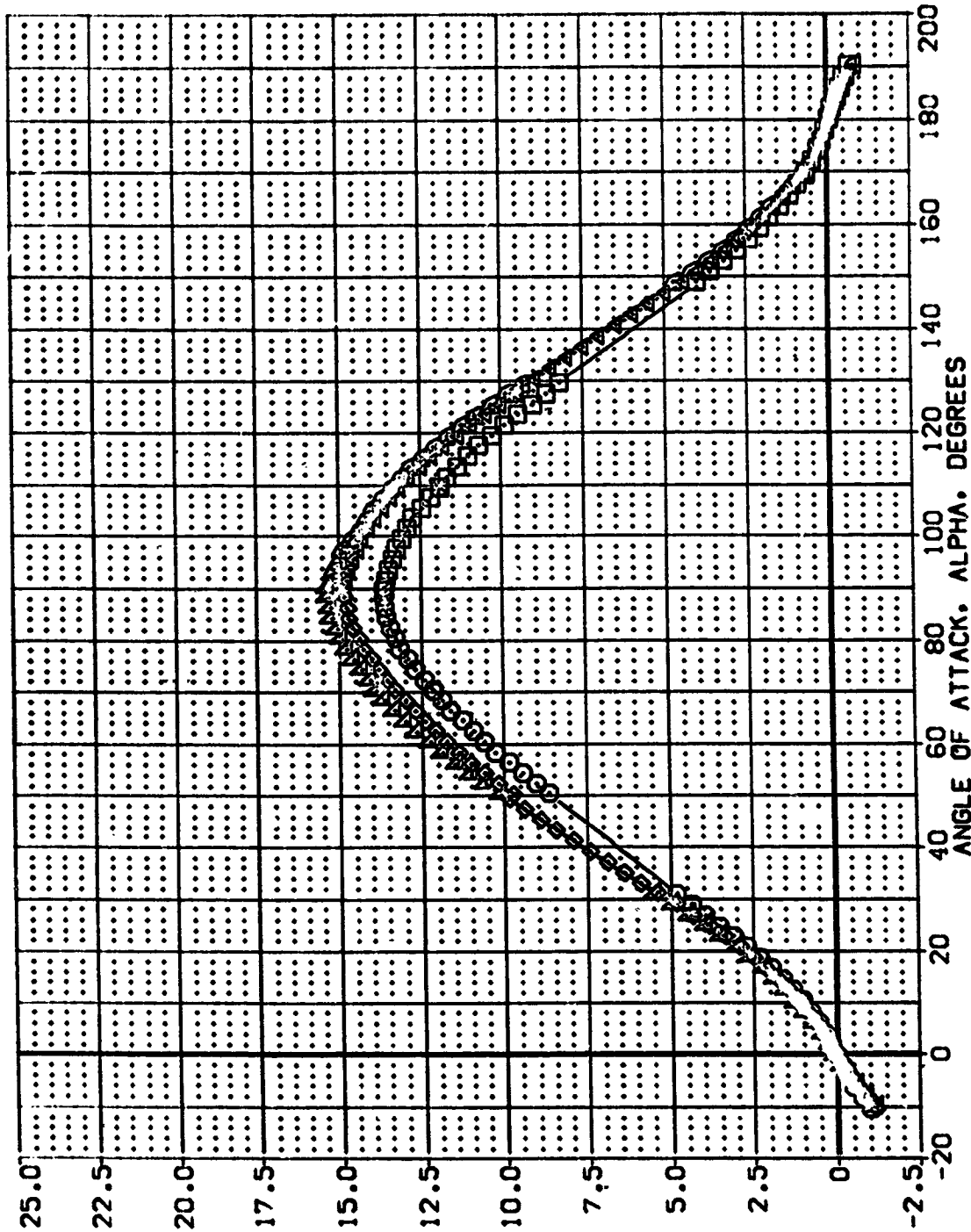


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
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BREF 9000  
XMRP 4.633C  
YMRP 0.000  
ZMRP 0.000  
SCALE 0.074

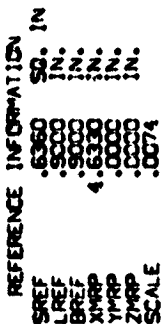
BETA (PH)  
000 247.500  
000 247.500  
000 270.000  
000 270.000  
000 292.500  
000 292.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
MS C 587 (FA4) TITAN SRM (NBETP)  
MS C 587 (FA4) TITAN SRM (NBETP)  
MS C 587 (FA4) TITAN SRM (NBETP)  
MS C 587 (FA4) TITAN SRM (NBETP)  
MS C 587 (FA4) TITAN SRM (NBETP)  
MS C 587 (FA4) TITAN SRM (NBETP)



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(E)MACH = 3.48



BETA	PMI
.000	247.500
.000	247.500
.000	270.000
.000	270.000
.000	292.500
.000	292.500

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
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DATA 2	DATA NOT AVAILABLE	
DATA 3	DATA NOT AVAILABLE	
DATA 4	DATA NOT AVAILABLE	
DATA 5	DATA NOT AVAILABLE	
DATA 6	DATA NOT AVAILABLE	
DATA 7	DATA NOT AVAILABLE	
DATA 8	DATA NOT AVAILABLE	
DATA 9	DATA NOT AVAILABLE	
DATA 10	DATA NOT AVAILABLE	
DATA 11	DATA NOT AVAILABLE	
DATA 12	DATA NOT AVAILABLE	
DATA 13	DATA NOT AVAILABLE	
DATA 14	DATA NOT AVAILABLE	
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DATA 17	DATA NOT AVAILABLE	
DATA 18	DATA NOT AVAILABLE	
DATA 19	DATA NOT AVAILABLE	
DATA 20	DATA NOT AVAILABLE	
DATA 21	DATA NOT AVAILABLE	
DATA 22	DATA NOT AVAILABLE	
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DATA 97	DATA NOT AVAILABLE	
DATA 98	DATA NOT AVAILABLE	
DATA 99	DATA NOT AVAILABLE	
DATA 100	DATA NOT AVAILABLE	

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
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2	50% of the data set
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4	12.5% of the data set
5	6.25% of the data set
6	3.125% of the data set
7	1.5625% of the data set
8	0.78125% of the data set
9	0.390625% of the data set
10	0.1953125% of the data set
11	0.09765625% of the data set
12	0.048828125% of the data set
13	0.0244140625% of the data set
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17	0.00152587890625% of the data set
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19	0.0003814697265625% of the data set
20	0.00019073486328125% of the data set
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23	0.00002384185791015625% of the data set
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61	0.0000000000000000867361737988403547205962239695953369140625% of the data set
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69	

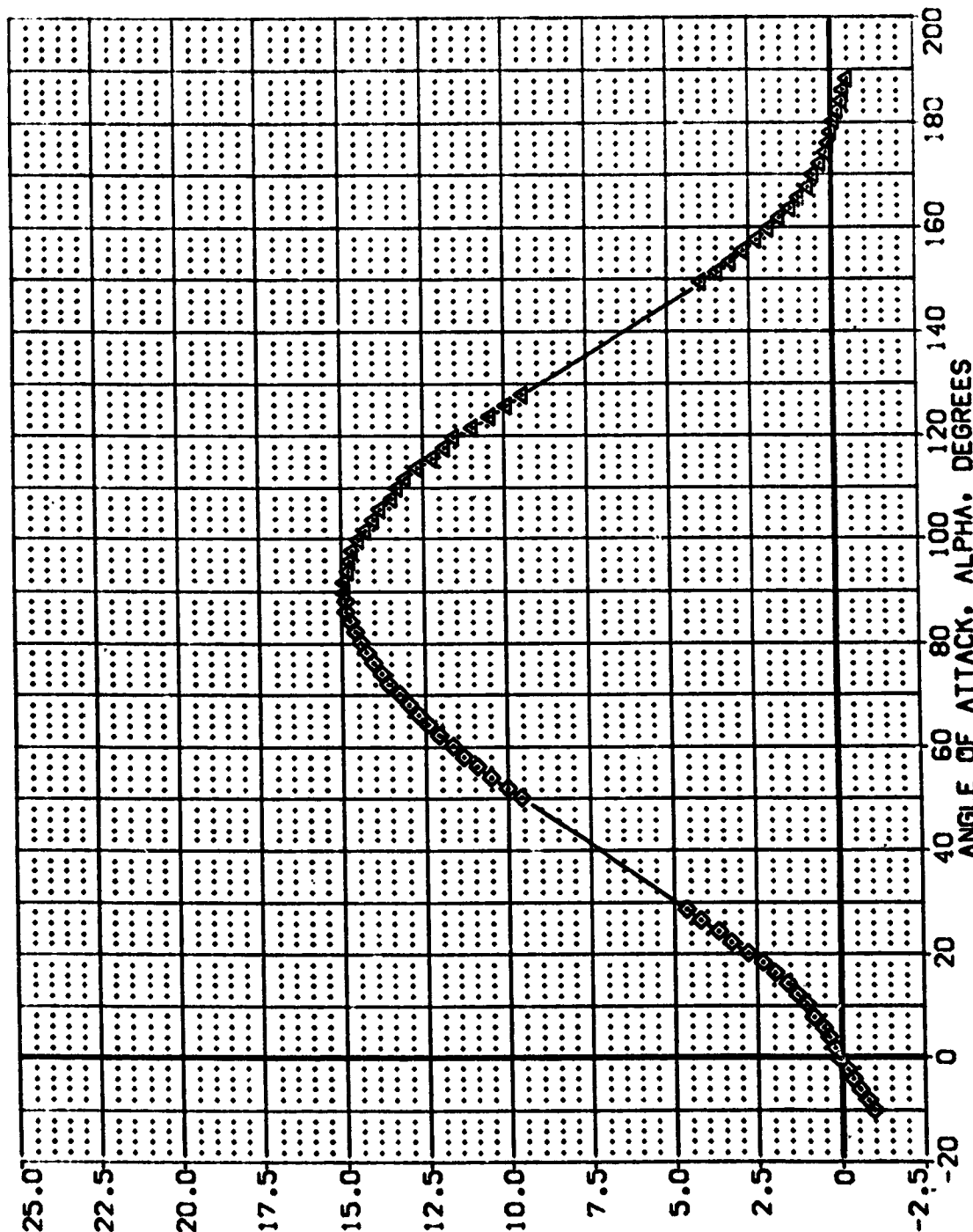
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257A:07	DATA	NOT AVAILABLE
257A:08	DATA	NOT AVAILABLE

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ZMRP	0000	IN	IN
SCALE	0074	IN	IN

MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM



# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

$$[F]_{MACH} = 4.96$$

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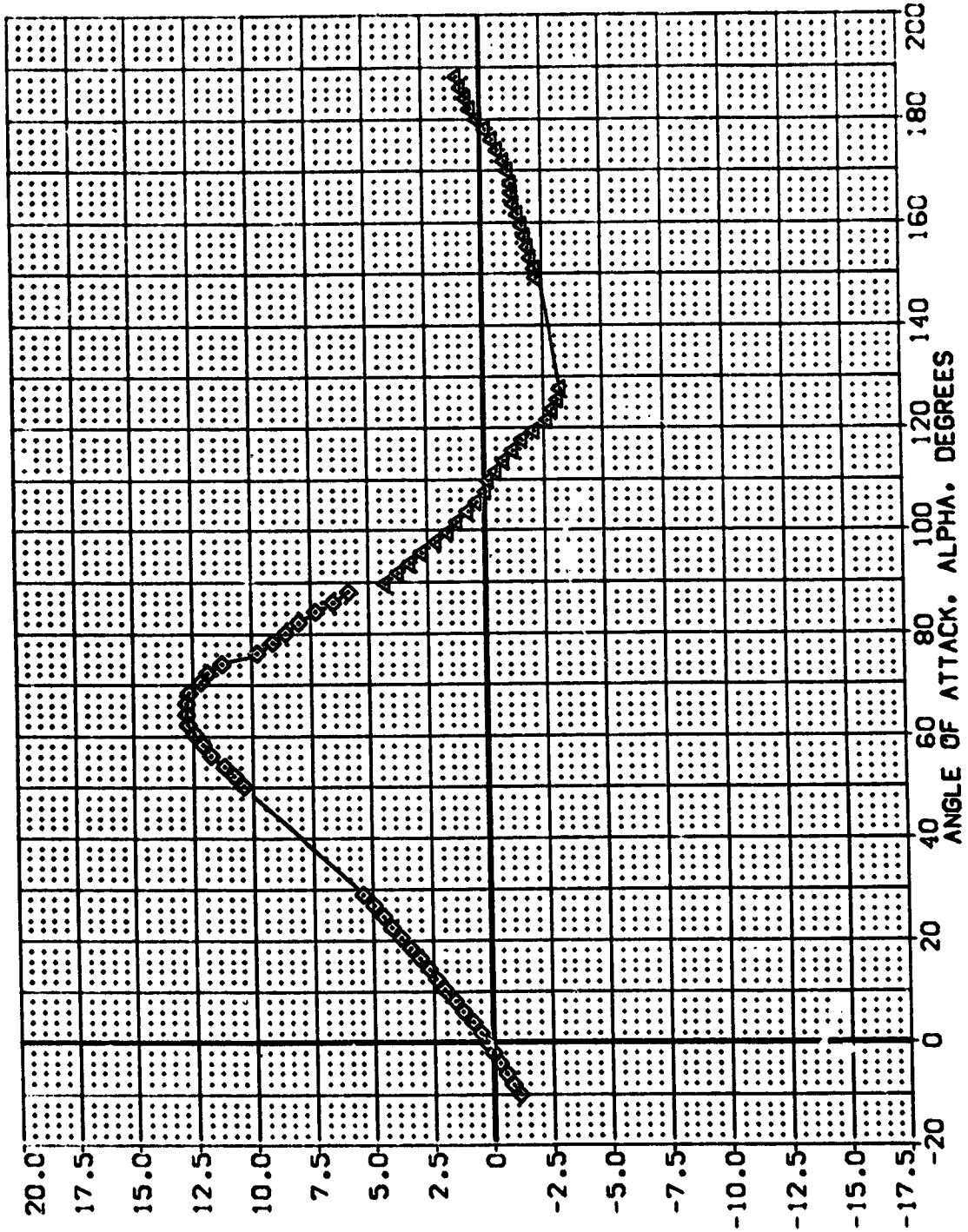


REPRODUCIBILITY OF THE  
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BREF 5000 IN  
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YMRP 5000 IN  
ZMRP 5000 IN  
SCALE 0074

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000 292.500  
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R97A114 SFC 587(FA4) TITAN III C SRM (NBETP)  
R97A115 DATA NOT AVAILABLE  
R97A116 DATA NOT AVAILABLE



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLMM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(A)MACH = .60

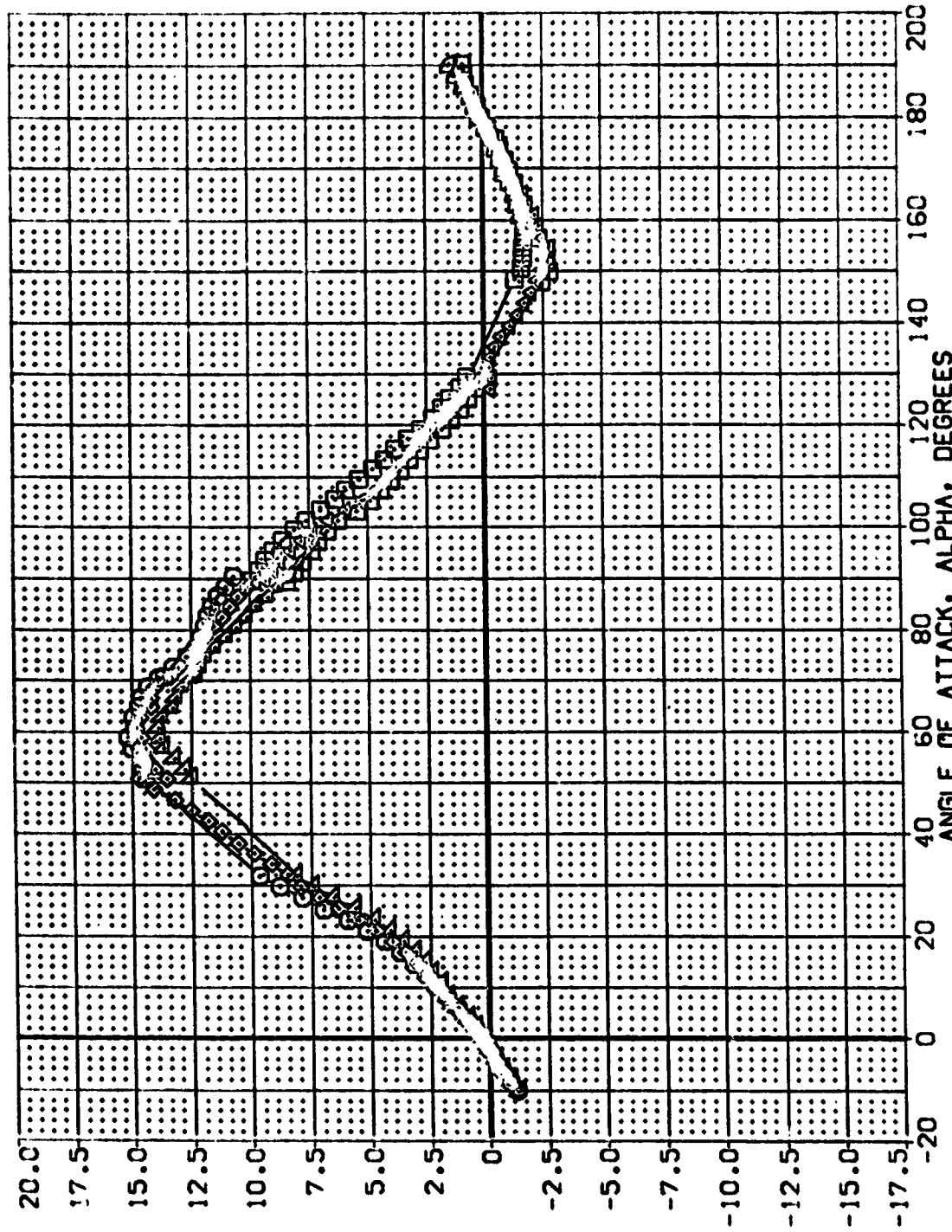


REPRODUCIBILITY OF THE  
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ZMRP .0000 IN.  
SCALE .0074

BETA PHI  
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.000 270.000  
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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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[RBT2] MS C 587(F44) TITAN III C SRM (NBETP)  
[RBT3] MS C 587(F44) TITAN III C SRM (NBETP)  
[RBT4] MS C 587(F44) TITAN III C SRM (NBETP)  
[RBT5] MS C 587(F44) TITAN III C SRM (NBETP)  
[RBT6] MS C 587(F44) TITAN III C SRM (NBETP)



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

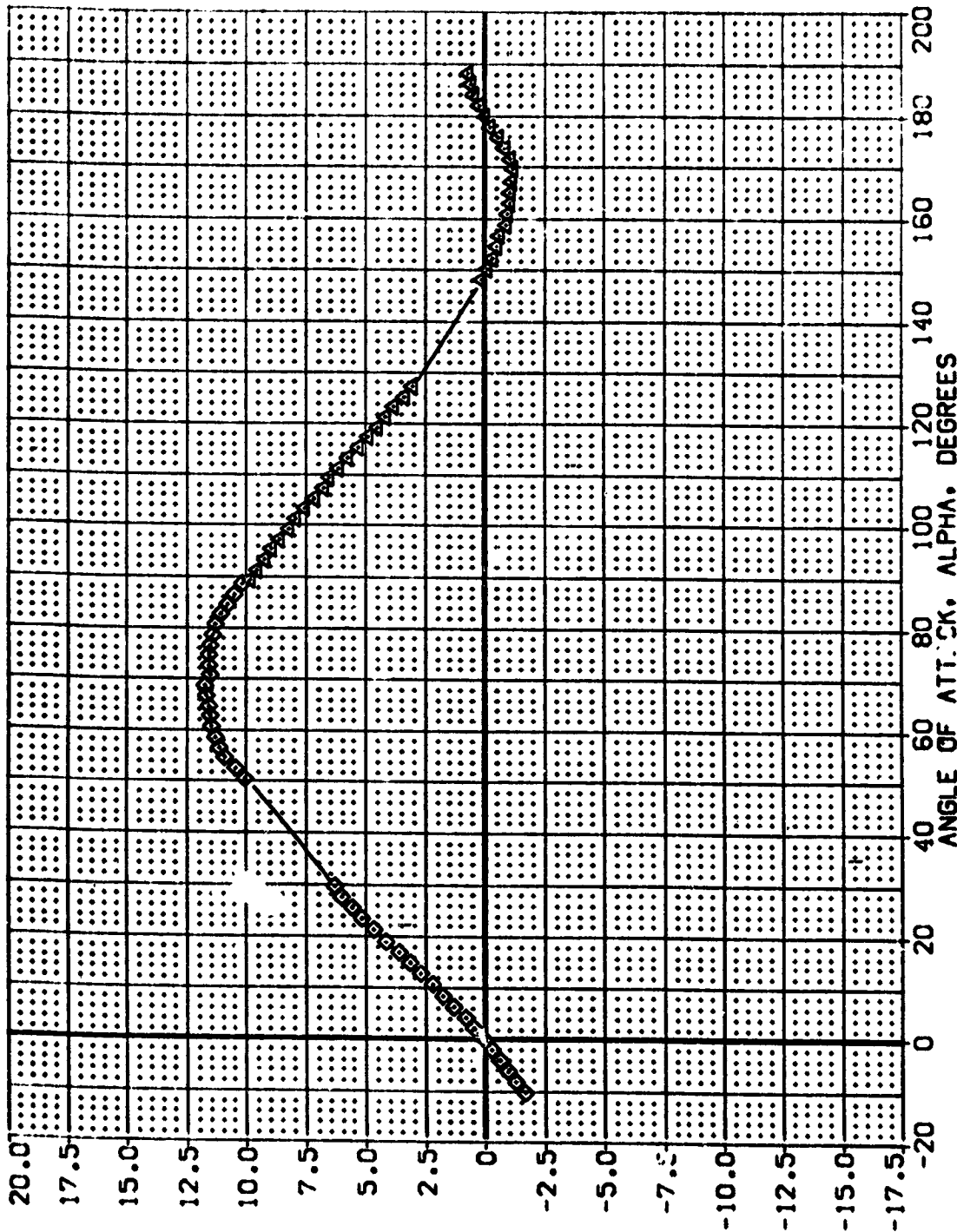
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.20

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 [P57A10] MSC C 587(F44) TITAN III C SRM (NBETP)  
 [P57A07] DATA NOT AVAILABLE  
 [P57A08] DATA NOT AVAILABLE

BETA PH  
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 ZMRP .0000 IN  
 SCALE .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

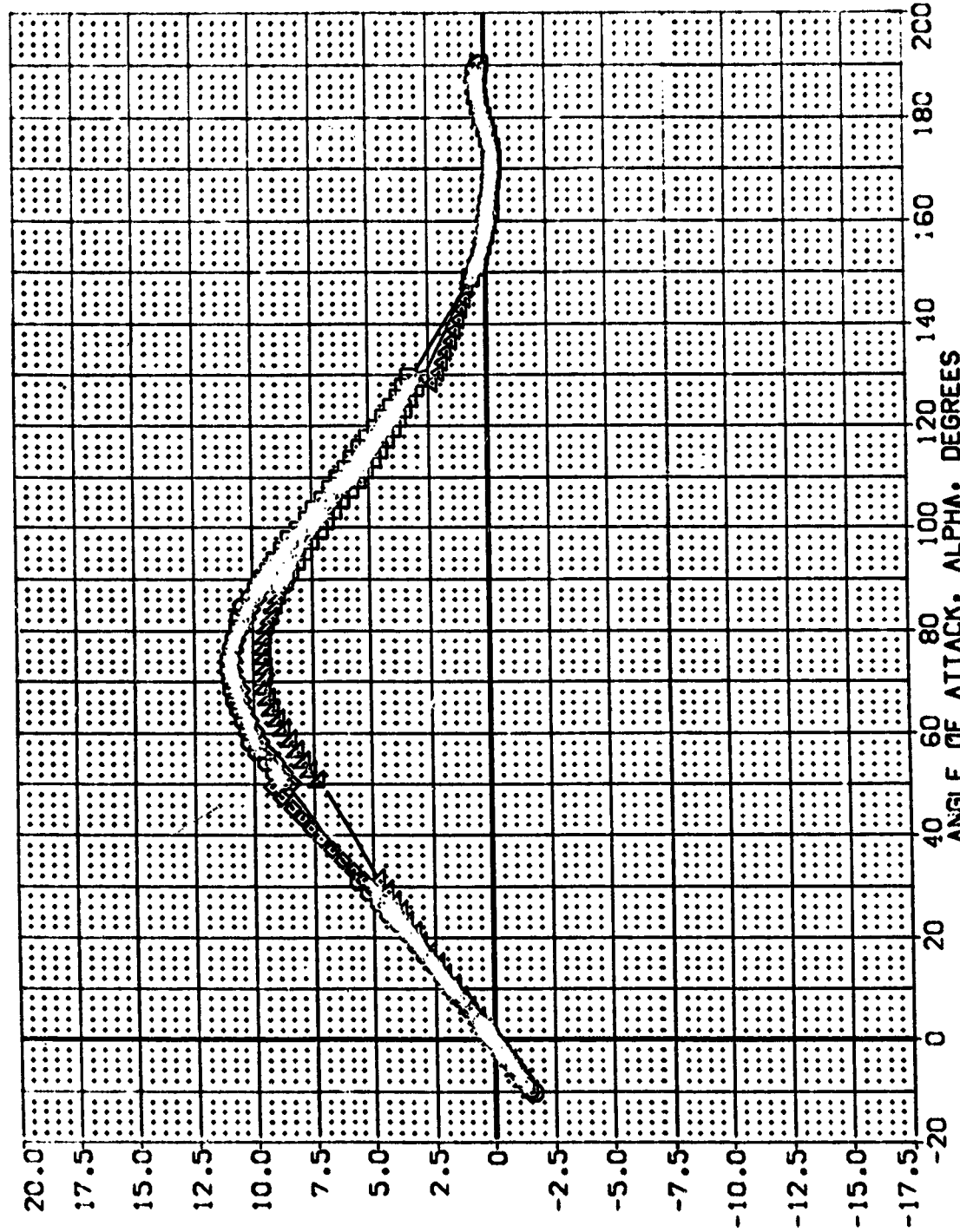
(O)MACH = 1.96



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DATA SE. SYMBO. CONFIGURATION DESCRIPTION BETA PAI REFERENCE INFORMATION

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007A	3	MS C 587 (FA4) TITAN III C SRM (NBETP)	.000	270.000	BREF .5000
007A	4	MS C 587 (FA4) TITAN III C SRM (NBETP)	.000	270.000	XMRP .6330
007A	5	MS C 587 (FA4) TITAN III C SRM (NBETP)	.000	292.500	YMRP .0000
007A	6	MS C 587 (FA4) TITAN III C SRM (NBETP)	.000	292.500	ZMRP .0000
007A	7	MS C 587 (FA4) TITAN III C SRM (NBETP)	.000	292.500	SCALE .0074



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLMM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(E)MACH = 3.48

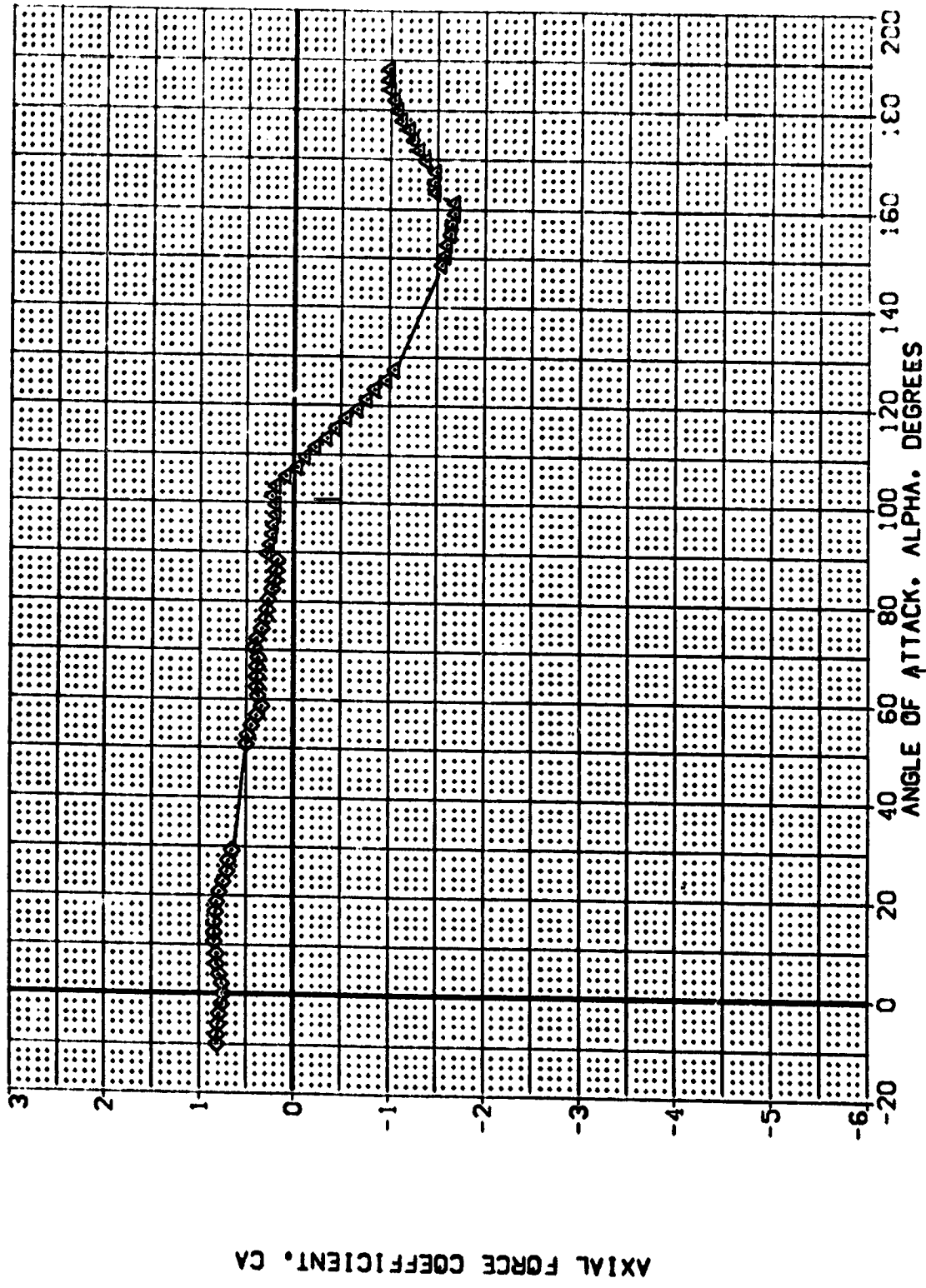






DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    P-HI    REFERENCE INFORMATION IN

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LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

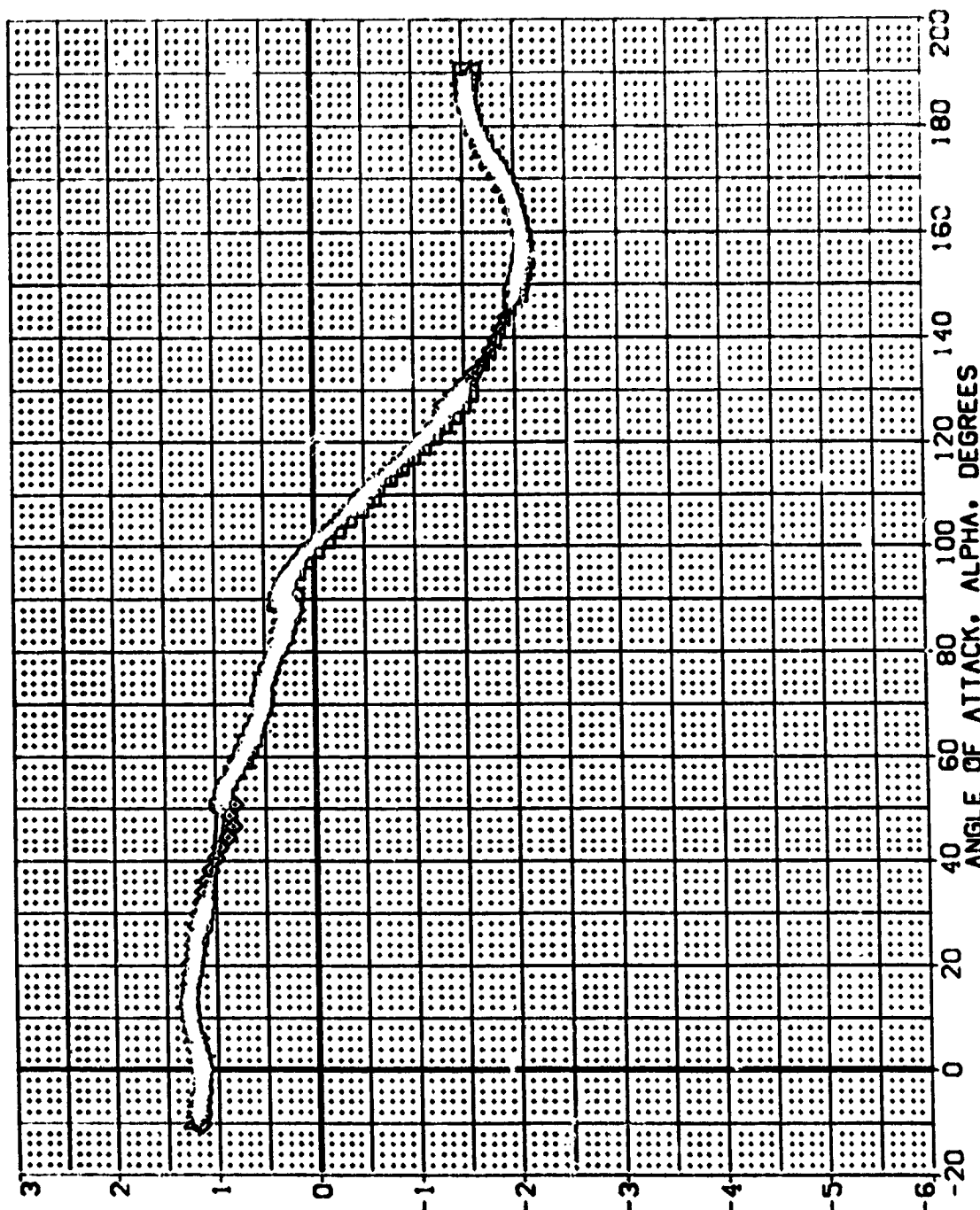


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.000	292,500
.000	292,500

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987A112	S871FA41
987A113	S871FA41
987A114	S871FA41
987A115	S871FA41
987A116	S871FA41
987A117	S871FA41
987A118	S871FA41
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987A121	S871FA41
987A122	S871FA41
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DATA SET SYMBOL

AXIAL FORCE COEFFICIENT, CA



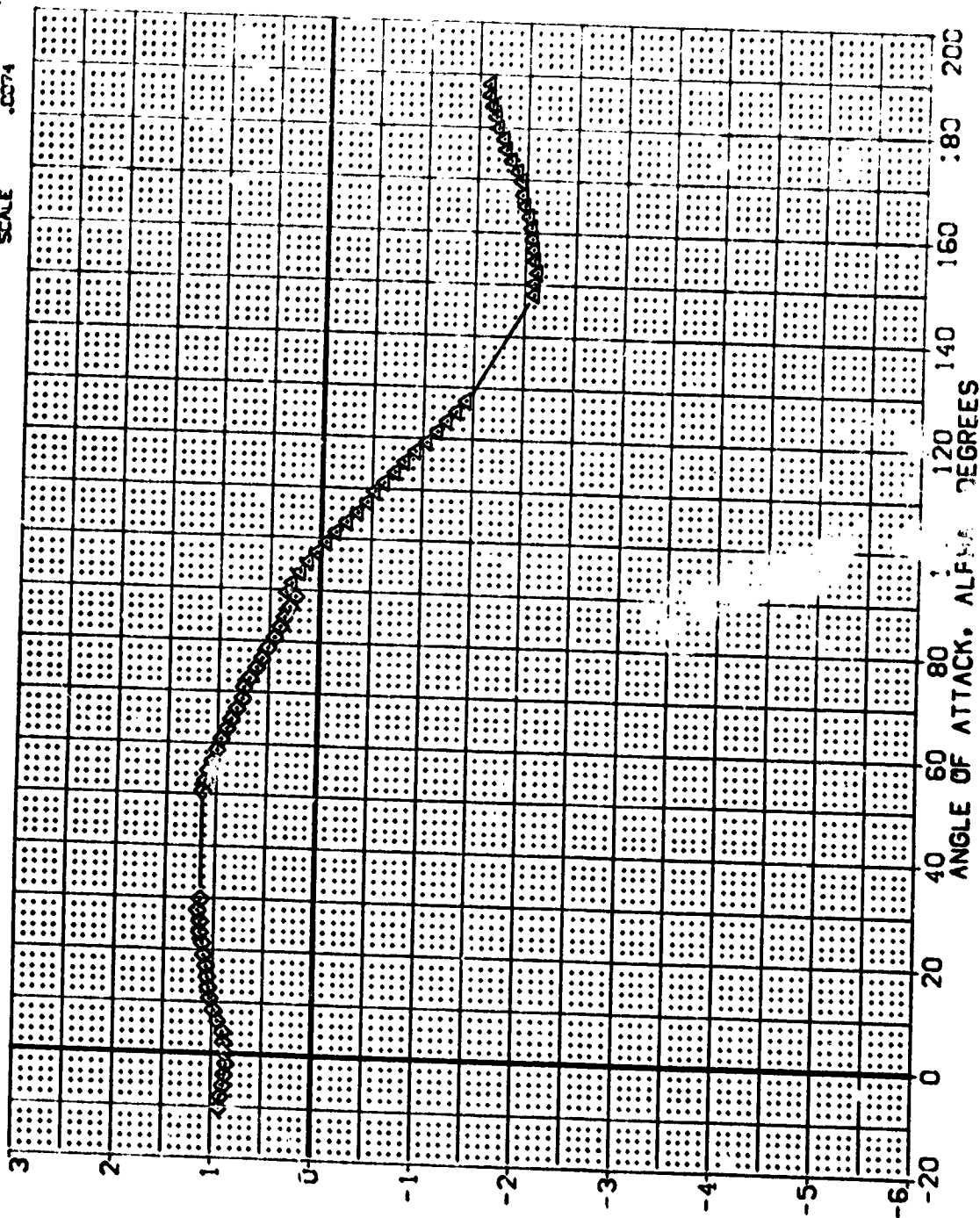
# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

$$[C]_{MACH} = 1.20$$

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		DATA NOT AVAILABLE
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	M5C	587(FA4) TITAN III C SRM (NEETP)
		DATA NOT AVAILABLE
		DATA NOT AVAILABLE

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.000	.292.500
.000	.292.500

REFERENCE INFORMATION	
	SD IN
SREF	.6360
LREF	.9000
BREF	.9000
XREF	.9000
YREF	.6300
ZREF	.0002
SCALE	.0074



AXIAL FORCE COEFFICIENT, CA

# LONGITUDINAL STABILITY CHARACTERISTICS OF THE T-10 GAM (NBETP)

**CDMACH = 1.96**

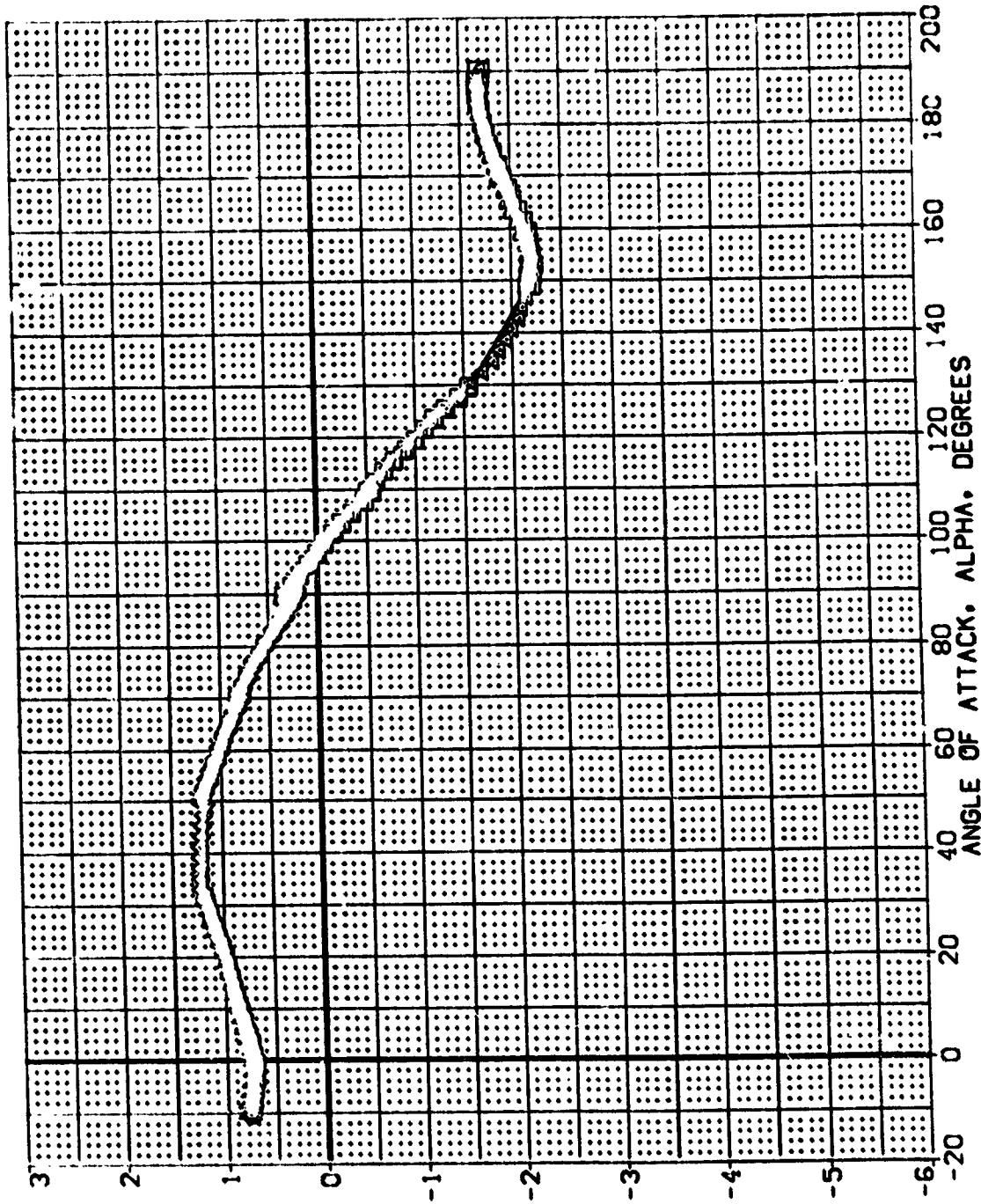
PAGE 10



BETA	Phi
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.000	270.000
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.000	292.500

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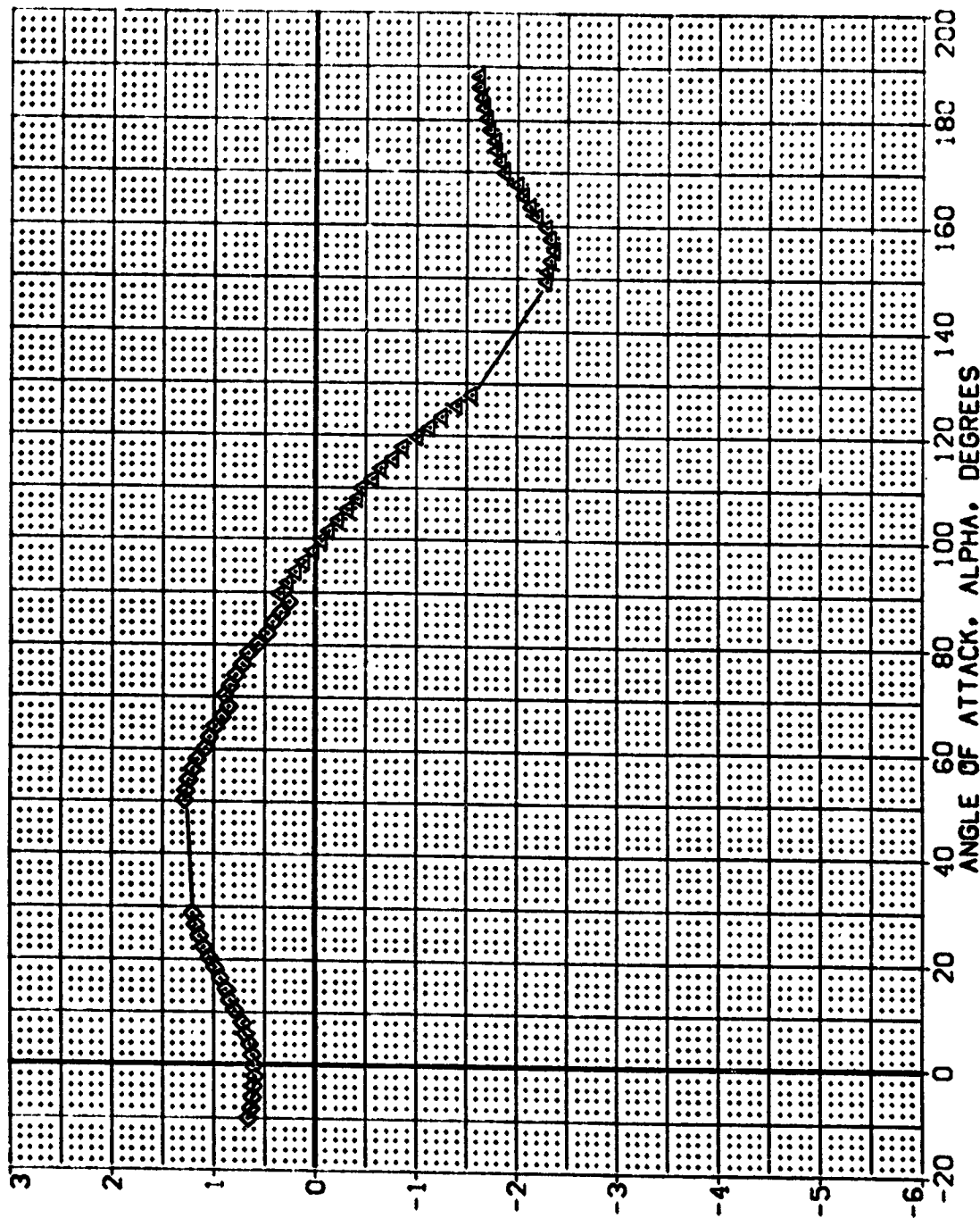
AXIAL FORCE COEFFICIENT, CA



# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBET?)

**[E]MACH = 3.48**

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[R77A12]	DATA NOT AVAILABLE	.000	247.500	LREF
[R77A13]	DATA NOT AVAILABLE	.000	247.500	EREF
[R77A10]	MSEC S87(EA4) TITAN III C SRM (N8ETP)	.000	270.000	XREF
[R77A07]	DATA NOT AVAILABLE	.000	292.500	THRP
[R77A08]	DATA NOT AVAILABLE	.000	292.500	ZMRP
		.000	292.500	SCALE
				.0074



# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

$$(F)_{MACH} = 4.96$$

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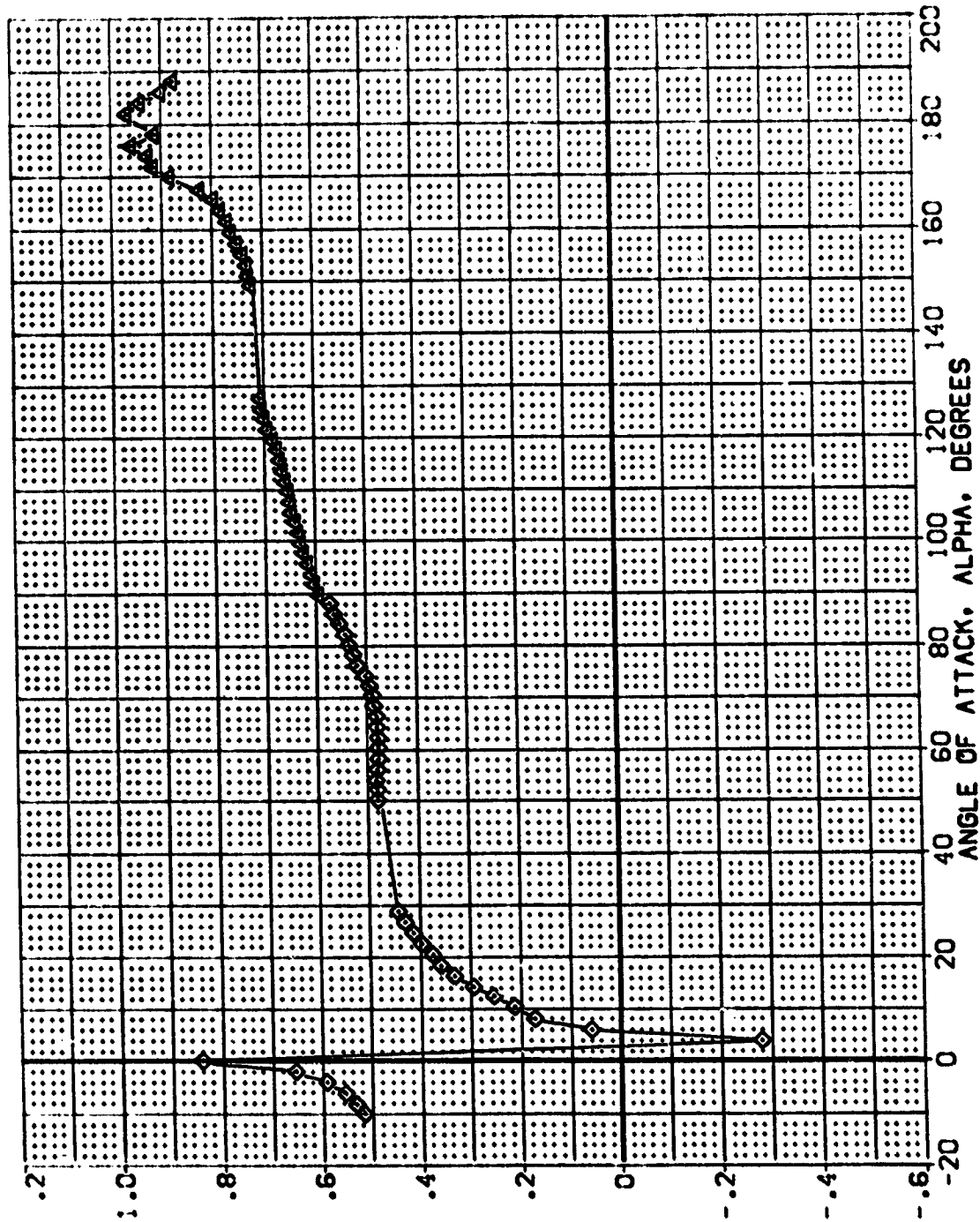


REFERENCE INFORMATION	
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LREF	.5000
BREF	.7000
XMRP	.9000
YMRP	.6330
ZMRP	.0000
SCALE	.0074

BETA	PHI
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.000	292.500

DATA SET SYMBOL	CONTINUATION DESCRIPTION
DATA 1	NOT AVAILABLE
DATA 2	NOT AVAILABLE
DATA 3	587 (A4) TITAN III C SRM (N87P)
DATA 4	587 (A4) TITAN III C SRM (N87P)
DATA 5	NOT AVAILABLE
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CENTER OF PRESSURE LOCATION BASED ON WING LENGTH. XCP/L



# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

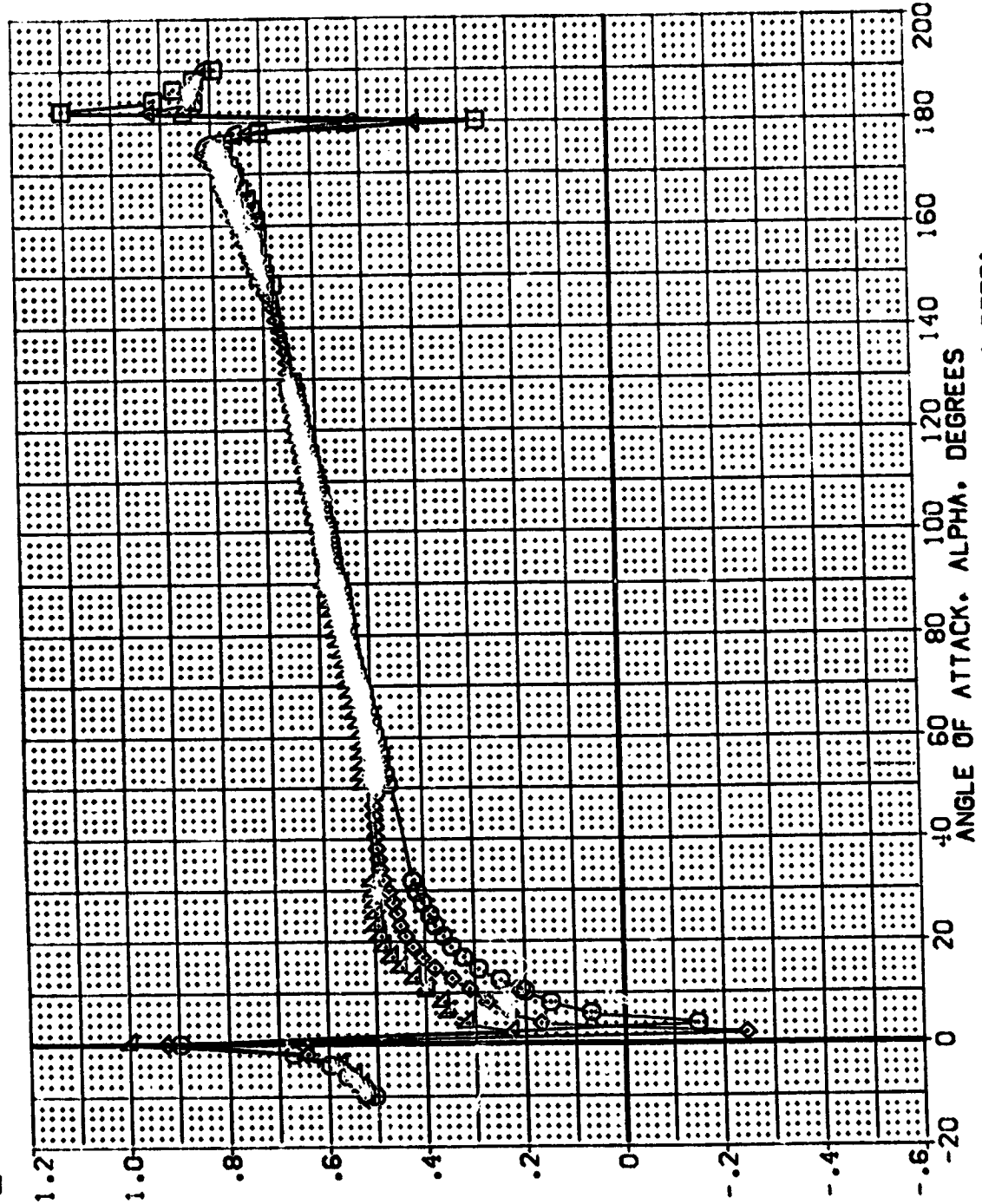
$$C_A \text{MACH} = .60$$



REFERENCE INFORMATION  
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XMRP 4.6330  
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SCALE .0074

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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R57A112 NSC 587(F4) TITAN SRM (NBETP)  
R57A113 NSC 587(F4) TITAN SRM (NBETP)  
R57A114 NSC 587(F4) TITAN SRM (NBETP)  
R57A115 NSC 587(F4) TITAN SRM (NBETP)  
R57A116 NSC 587(F4) TITAN SRM (NBETP)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.20



DATA SET SYMBOL CONFIGURATION DESCRIPTION

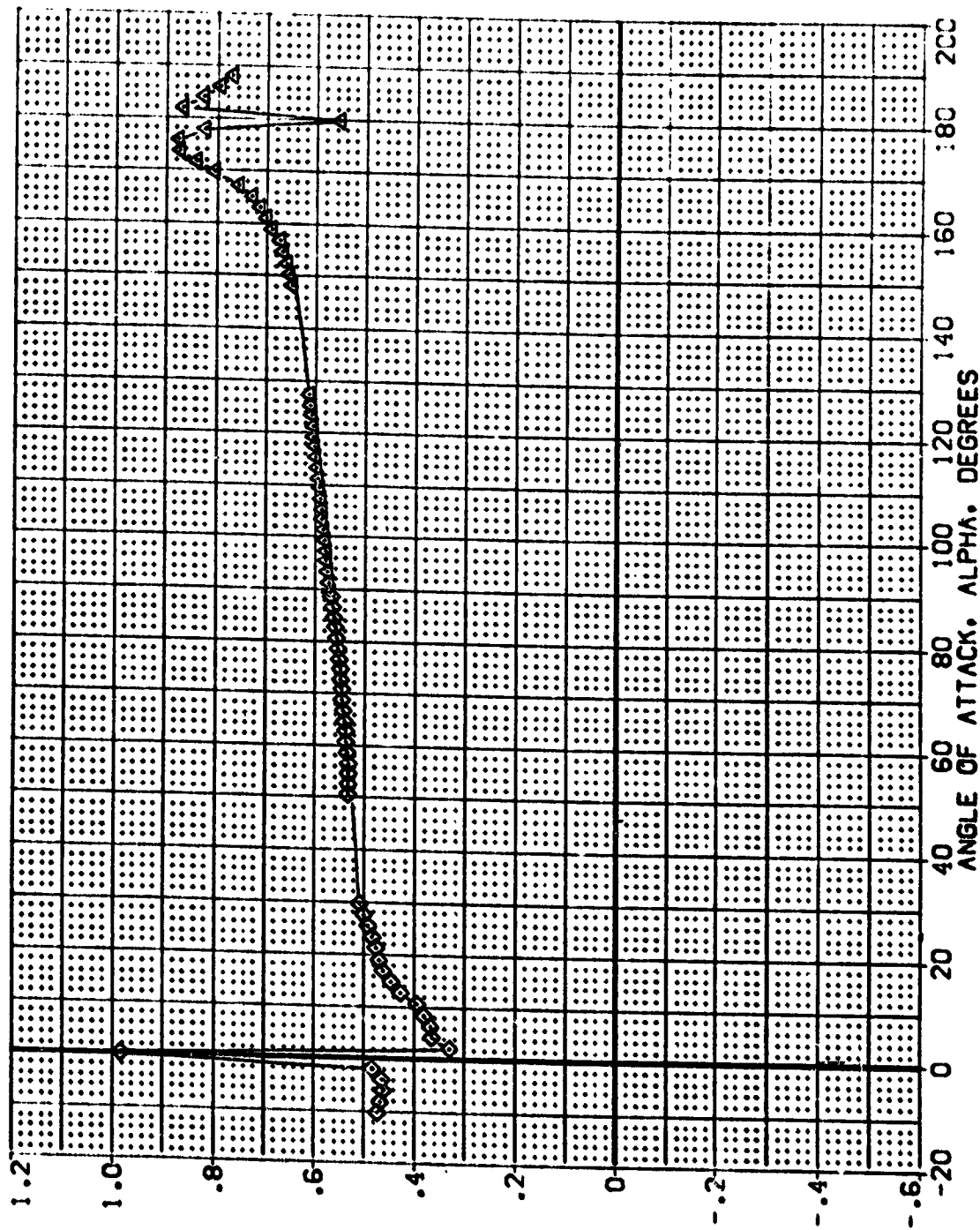
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RS7A(4)	MSFC 587(FA4) TITAN III C SRM (NBETP)
RS7A(5)	DATA NOT AVAILABLE
RS7A(6)	DATA NOT AVAILABLE

BETA PHI

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.000	270.000
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REFERENCE INFORMATION

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LRF	9000	IN	IN
BRF	9000	IN	IN
YMRP	4	IN	IN
YMRP	6330	IN	IN
ZMRP	0000	IN	IN
SCALE	.0074		



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(D)MACH = 1.96

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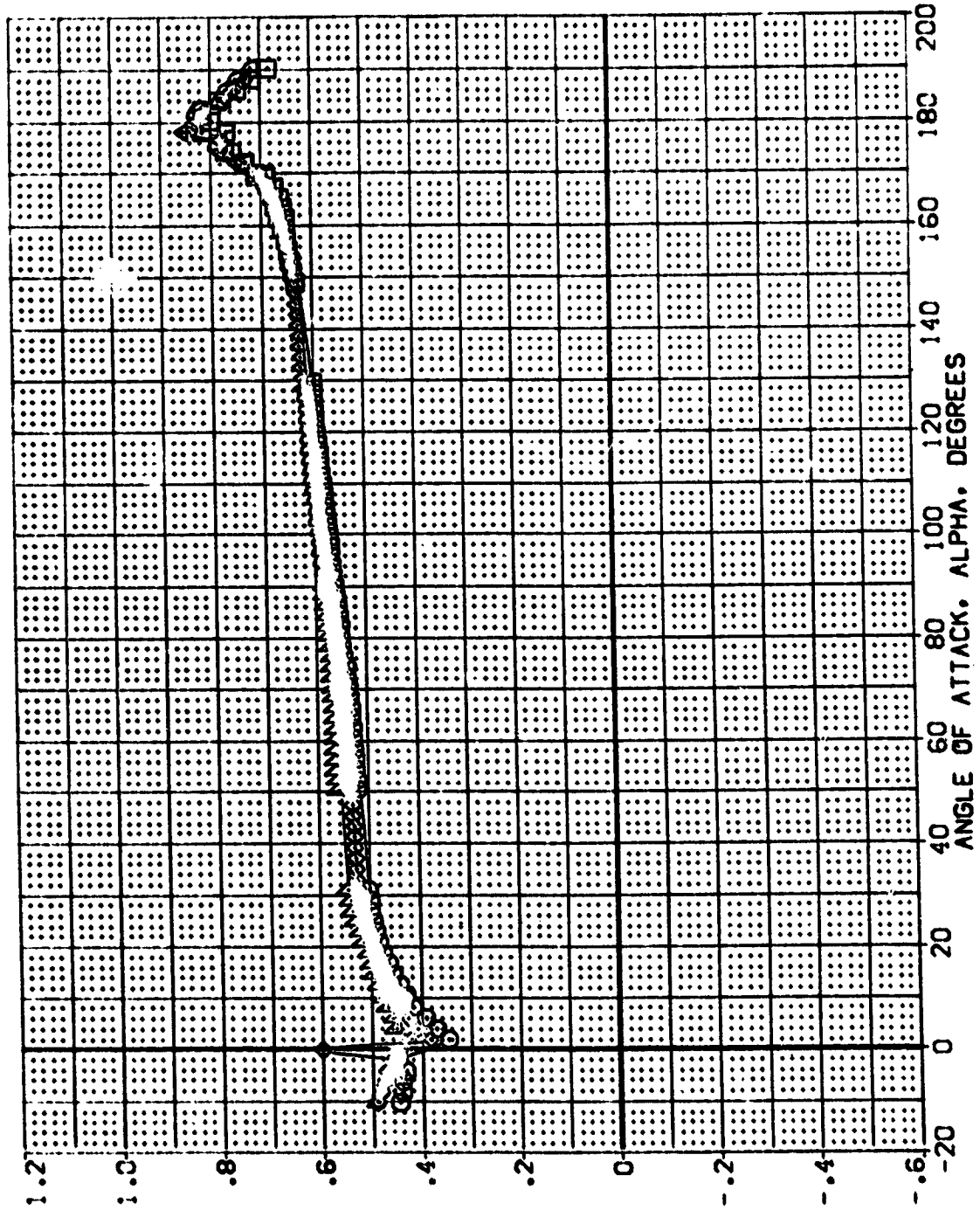


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATA SE: SYMBC: CONFIGURATION DESCRIPTION: BETA PHI: REFERENCE INFORMATION: IN

DATA SE	SYMBC	CONFIGURATION DESCRIPTION	BETA	PHI	REFERENCE INFORMATION	IN
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257A2	2	SRM (FA4)	.000	247.500	LRREF	.8000
257A3	3	SRM (FA4)	.000	270.000	BRREF	.8000
257A4	4	SRM (FA4)	.000	270.000	VRREF	.8000
257A5	5	SRM (FA4)	.000	292.500	VRREF	.8000
257A6	6	SRM (FA4)	.000	292.500	VRREF	.8000
257A7	7	SRM (FA4)	.000	292.500	VRREF	.8000
257A8	8	SRM (FA4)	.000	292.500	VRREF	.8000
257A9	9	SRM (FA4)	.000	292.500	VRREF	.8000
257A10	10	SRM (FA4)	.000	292.500	VRREF	.8000
257A11	11	SRM (FA4)	.000	292.500	VRREF	.8000
257A12	12	SRM (FA4)	.000	292.500	VRREF	.8000
257A13	13	SRM (FA4)	.000	292.500	VRREF	.8000
257A14	14	SRM (FA4)	.000	292.500	VRREF	.8000
257A15	15	SRM (FA4)	.000	292.500	VRREF	.8000
257A16	16	SRM (FA4)	.000	292.500	VRREF	.8000
257A17	17	SRM (FA4)	.000	292.500	VRREF	.8000
257A18	18	SRM (FA4)	.000	292.500	VRREF	.8000
257A19	19	SRM (FA4)	.000	292.500	VRREF	.8000
257A20	20	SRM (FA4)	.000	292.500	VRREF	.8000
257A21	21	SRM (FA4)	.000	292.500	VRREF	.8000
257A22	22	SRM (FA4)	.000	292.500	VRREF	.8000
257A23	23	SRM (FA4)	.000	292.500	VRREF	.8000
257A24	24	SRM (FA4)	.000	292.500	VRREF	.8000
257A25	25	SRM (FA4)	.000	292.500	VRREF	.8000
257A26	26	SRM (FA4)	.000	292.500	VRREF	.8000
257A27	27	SRM (FA4)	.000	292.500	VRREF	.8000
257A28	28	SRM (FA4)	.000	292.500	VRREF	.8000
257A29	29	SRM (FA4)	.000	292.500	VRREF	.8000
257A30	30	SRM (FA4)	.000	292.500	VRREF	.8000
257A31	31	SRM (FA4)	.000	292.500	VRREF	.8000
257A32	32	SRM (FA4)	.000	292.500	VRREF	.8000
257A33	33	SRM (FA4)	.000	292.500	VRREF	.8000
257A34	34	SRM (FA4)	.000	292.500	VRREF	.8000
257A35	35	SRM (FA4)	.000	292.500	VRREF	.8000
257A36	36	SRM (FA4)	.000	292.500	VRREF	.8000
257A37	37	SRM (FA4)	.000	292.500	VRREF	.8000
257A38	38	SRM (FA4)	.000	292.500	VRREF	.8000
257A39	39	SRM (FA4)	.000	292.500	VRREF	.8000
257A40	40	SRM (FA4)	.000	292.500	VRREF	.8000
257A41	41	SRM (FA4)	.000	292.500	VRREF	.8000
257A42	42	SRM (FA4)	.000	292.500	VRREF	.8000
257A43	43	SRM (FA4)	.000	292.500	VRREF	.8000
257A44	44	SRM (FA4)	.000	292.500	VRREF	.8000
257A45	45	SRM (FA4)	.000	292.500	VRREF	.8000
257A46	46	SRM (FA4)	.000	292.500	VRREF	.8000
257A47	47	SRM (FA4)	.000	292.500	VRREF	.8000
257A48	48	SRM (FA4)	.000	292.500	VRREF	.8000
257A49	49	SRM (FA4)	.000	292.500	VRREF	.8000
257A50	50	SRM (FA4)	.000	292.500	VRREF	.8000
257A51	51	SRM (FA4)	.000	292.500	VRREF	.8000
257A52	52	SRM (FA4)	.000	292.500	VRREF	.8000
257A53	53	SRM (FA4)	.000	292.500	VRREF	.8000
257A54	54	SRM (FA4)	.000	292.500	VRREF	.8000
257A55	55	SRM (FA4)	.000	292.500	VRREF	.8000
257A56	56	SRM (FA4)	.000	292.500	VRREF	.8000
257A57	57	SRM (FA4)	.000	292.500	VRREF	.8000
257A58	58	SRM (FA4)	.000	292.500	VRREF	.8000
257A59	59	SRM (FA4)	.000	292.500	VRREF	.8000
257A60	60	SRM (FA4)	.000	292.500	VRREF	.8000
257A61	61	SRM (FA4)	.000	292.500	VRREF	.8000
257A62	62	SRM (FA4)	.000	292.500	VRREF	.8000
257A63	63	SRM (FA4)	.000	292.500	VRREF	.8000
257A64	64	SRM (FA4)	.000	292.500	VRREF	.8000
257A65	65	SRM (FA4)	.000	292.500	VRREF	.8000
257A66	66	SRM (FA4)	.000	292.500	VRREF	.8000
257A67	67	SRM (FA4)	.000	292.500	VRREF	.8000
257A68	68	SRM (FA4)	.000	292.500	VRREF	.8000
257A69	69	SRM (FA4)	.000	292.500	VRREF	.8000
257A70	70	SRM (FA4)	.000	292.500	VRREF	.8000
257A71	71	SRM (FA4)	.000	292.500	VRREF	.8000
257A72	72	SRM (FA4)	.000	292.500	VRREF	.8000
257A73	73	SRM (FA4)	.000	292.500	VRREF	.8000
257A74	74	SRM (FA4)	.000	292.500	VRREF	.8000
257A75	75	SRM (FA4)	.000	292.500	VRREF	.8000
257A76	76	SRM (FA4)	.000	292.500	VRREF	.8000
257A77	77	SRM (FA4)	.000	292.500	VRREF	.8000
257A78	78	SRM (FA4)	.000	292.500	VRREF	.8000
257A79	79	SRM (FA4)	.000	292.500	VRREF	.8000
257A80	80	SRM (FA4)	.000	292.500	VRREF	.8000
257A81	81	SRM (FA4)	.000	292.500	VRREF	.8000
257A82	82	SRM (FA4)	.000	292.500	VRREF	.8000
257A83	83	SRM (FA4)	.000	292.500	VRREF	.8000
257A84	84	SRM (FA4)	.000	292.500	VRREF	.8000
257A85	85	SRM (FA4)	.000	292.500	VRREF	.8000
257A86	86	SRM (FA4)	.000	292.500	VRREF	.8000
257A87	87	SRM (FA4)	.000	292.500	VRREF	.8000
257A88	88	SRM (FA4)	.000	292.500	VRREF	.8000
257A89	89	SRM (FA4)	.000	292.500	VRREF	.8000
257A90	90	SRM (FA4)	.000	292.500	VRREF	.8000
257A91	91	SRM (FA4)	.000	292.500	VRREF	.8000
257A92	92	SRM (FA4)	.000	292.500	VRREF	.8000
257A93	93	SRM (FA4)	.000	292.500	VRREF	.8000
257A94	94	SRM (FA4)	.000	292.500	VRREF	.8000
257A95	95	SRM (FA4)	.000	292.500	VRREF	.8000
257A96	96	SRM (FA4)	.000	292.500	VRREF	.8000
257A97	97	SRM (FA4)	.000	292.500	VRREF	.8000
257A98	98	SRM (FA4)	.000	292.500	VRREF	.8000
257A99	99	SRM (FA4)	.000	292.500	VRREF	.8000
257A100	100	SRM (FA4)	.000	292.500	VRREF	.8000

CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

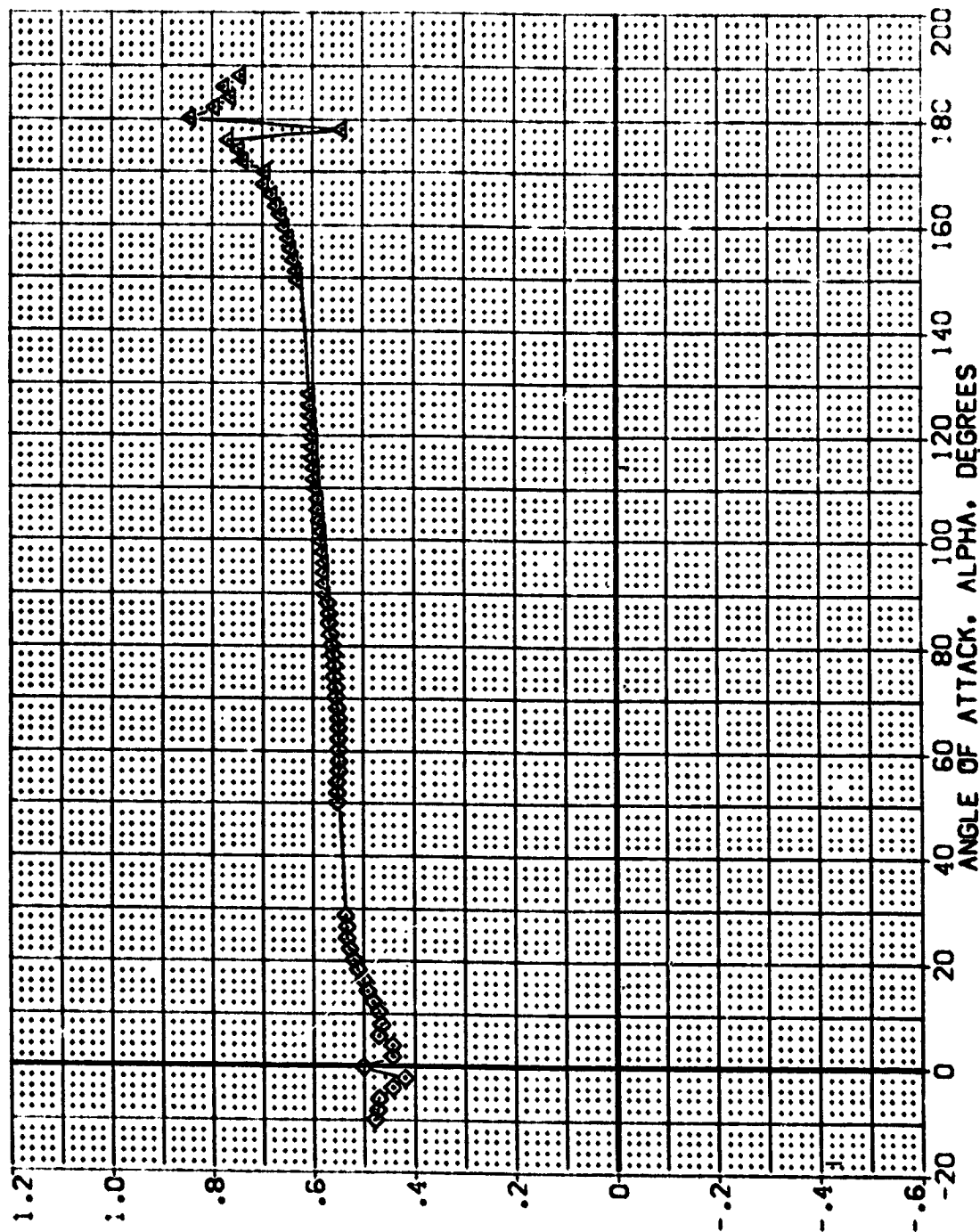
(E)MACH = 3.48



REFERENCE INFORMATION  
SREF .6360 SQ. IN.  
LREF .9000 IN.  
BREF .9000 IN.  
XMRP 4.6333 IN.  
YMRP .0000 IN.  
ZMRP .0000 IN.  
SCALE .0074

BETA PHI  
.000 247.500  
.000 247.500  
.000 270.000  
.000 270.000  
.000 292.500  
.000 292.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
RSTA11 DATA NOT AVAILABLE  
RSTA12 DATA NOT AVAILABLE  
RSTA13 MSC 587(FA4) TITAN III C SRM (NBETP)  
RSTA14 MSC 587(FA4) TITAN III C SRM (NBETP)  
RSTA15 DATA NOT AVAILABLE  
RSTA16 DATA NOT AVAILABLE  
RSTA17 DATA NOT AVAILABLE  
RSTA18 DATA NOT AVAILABLE



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

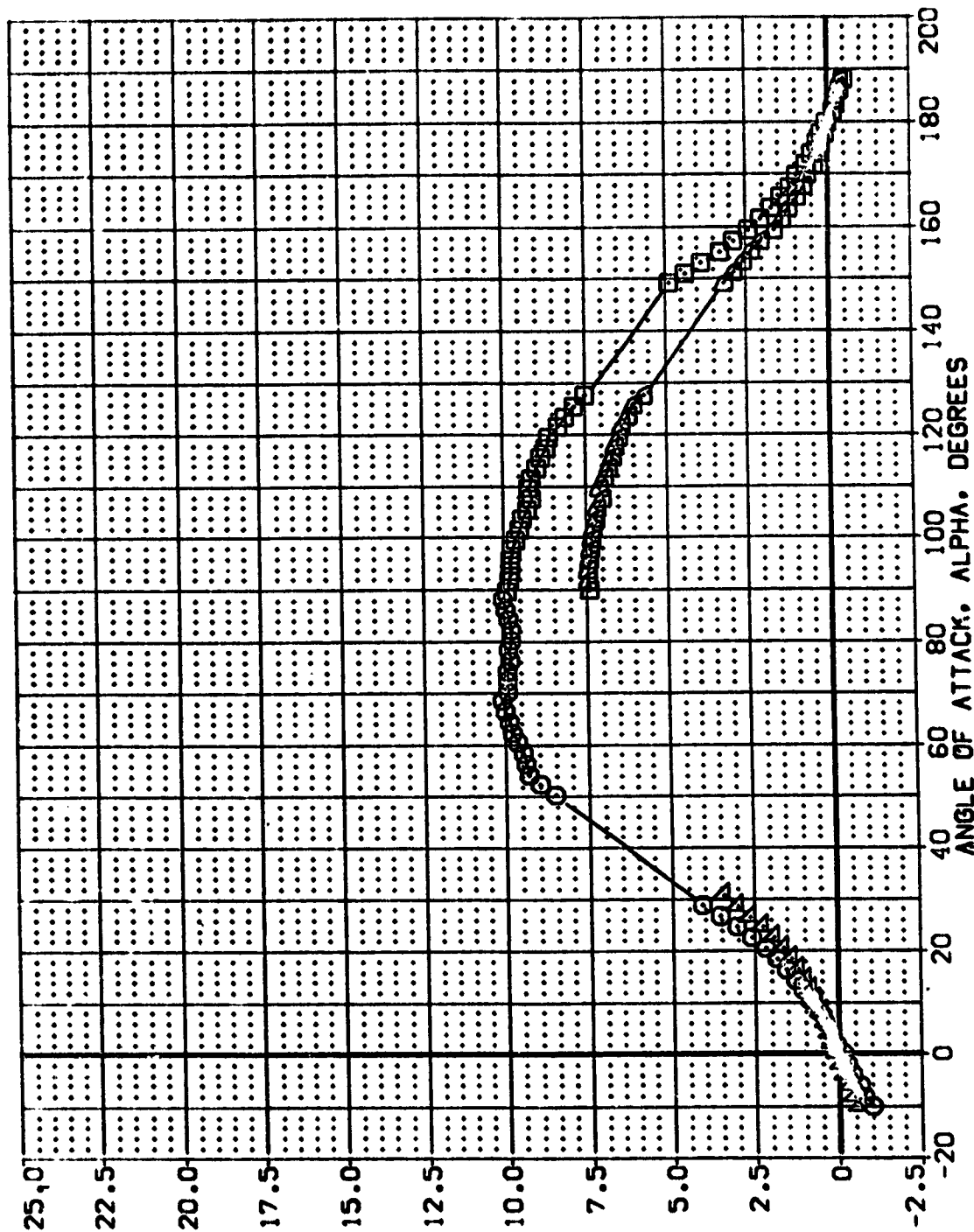
(F)MACH = 4.96

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
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LREF 3000  
BREF 3000  
XTRP 4.6300  
YTRP .0000  
ZTRP .0000  
SCALE .0074

BETA PH1  
.000 315.000  
.000 315.000  
.000 337.500  
.000 337.500  
.000 .000  
.000 .000

CONFIGURATION DESCRIPTION  
SFC 587(F43) TITAN III C SRM (NBETP)  
SFC 587(F43) TITAN III C SRM (NBETP)  
DATA NOT AVAILABLE  
DATA NOT AVAILABLE  
SFC 587(F43) TITAN III C SRM (NBETP)  
SFC 587(F43) TITAN III C SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

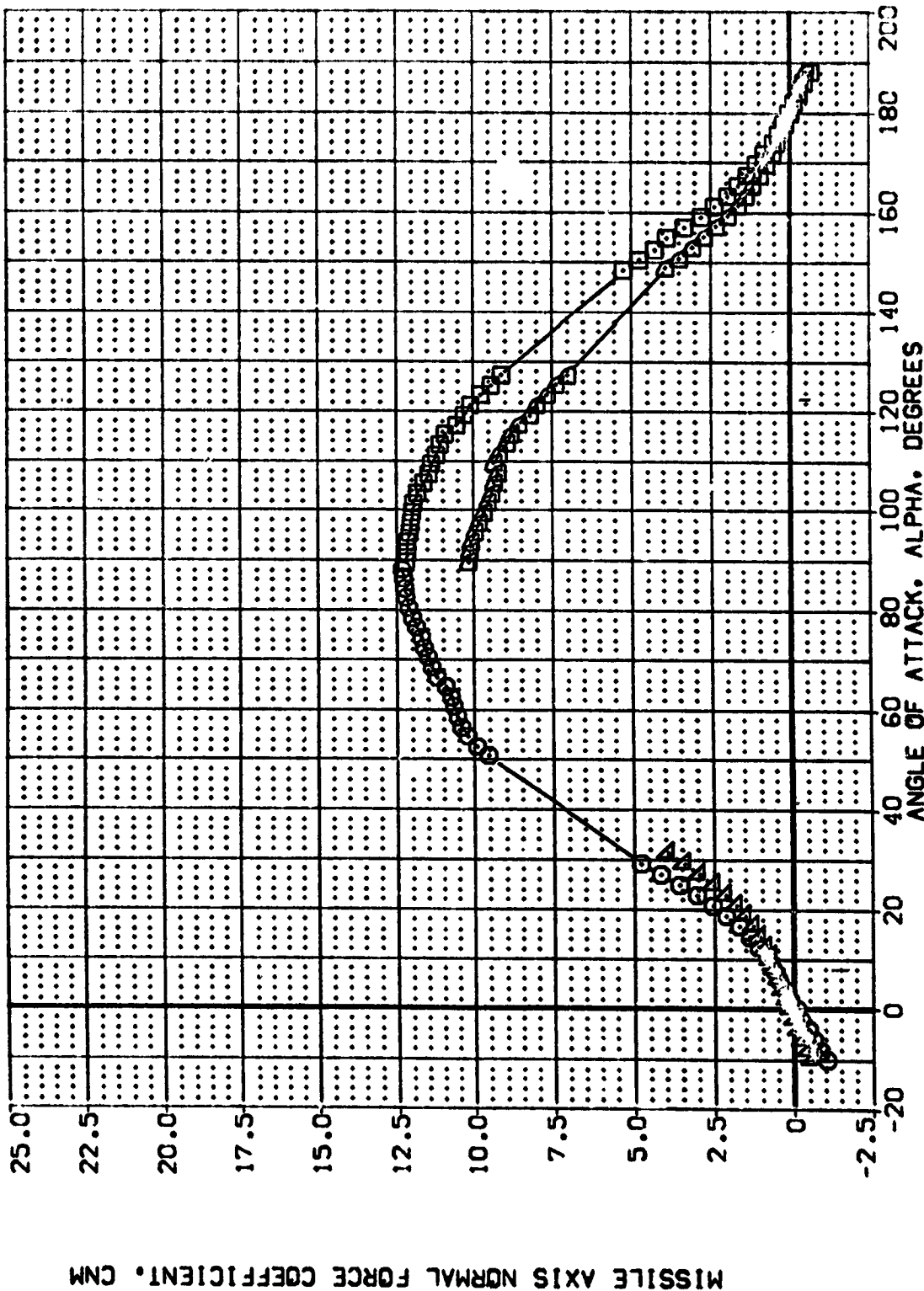
(A)MACH = .60

DATA SET SYMBOLS  
 197A05  
 197A06  
 197A07  
 197A08  
 197A09  
 197A10

CONFIGURATION DESCRIPTION  
 TITAN III C SRM (NBETP)  
 TITAN III C SRM (NBETP)  
 TITAN III C SRM (NBETP)  
 TITAN III C SRM (NBETP)  
 TITAN III C SRM (NBETP)  
 TITAN III C SRM (NBETP)

BETA PHJ  
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 .000 315.000  
 .000 315.000  
 .000 315.000  
 .000 315.000  
 .000 315.000

REFERENCE INFORMATION  
 SREF .6360 SQ. IN  
 LREF .5000 IN.  
 BREF .5000 IN.  
 XMRP 4.6330 IN.  
 YMRP .0000 IN.  
 ZMRP .0000 IN.  
 SCALE .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

PAGE 74

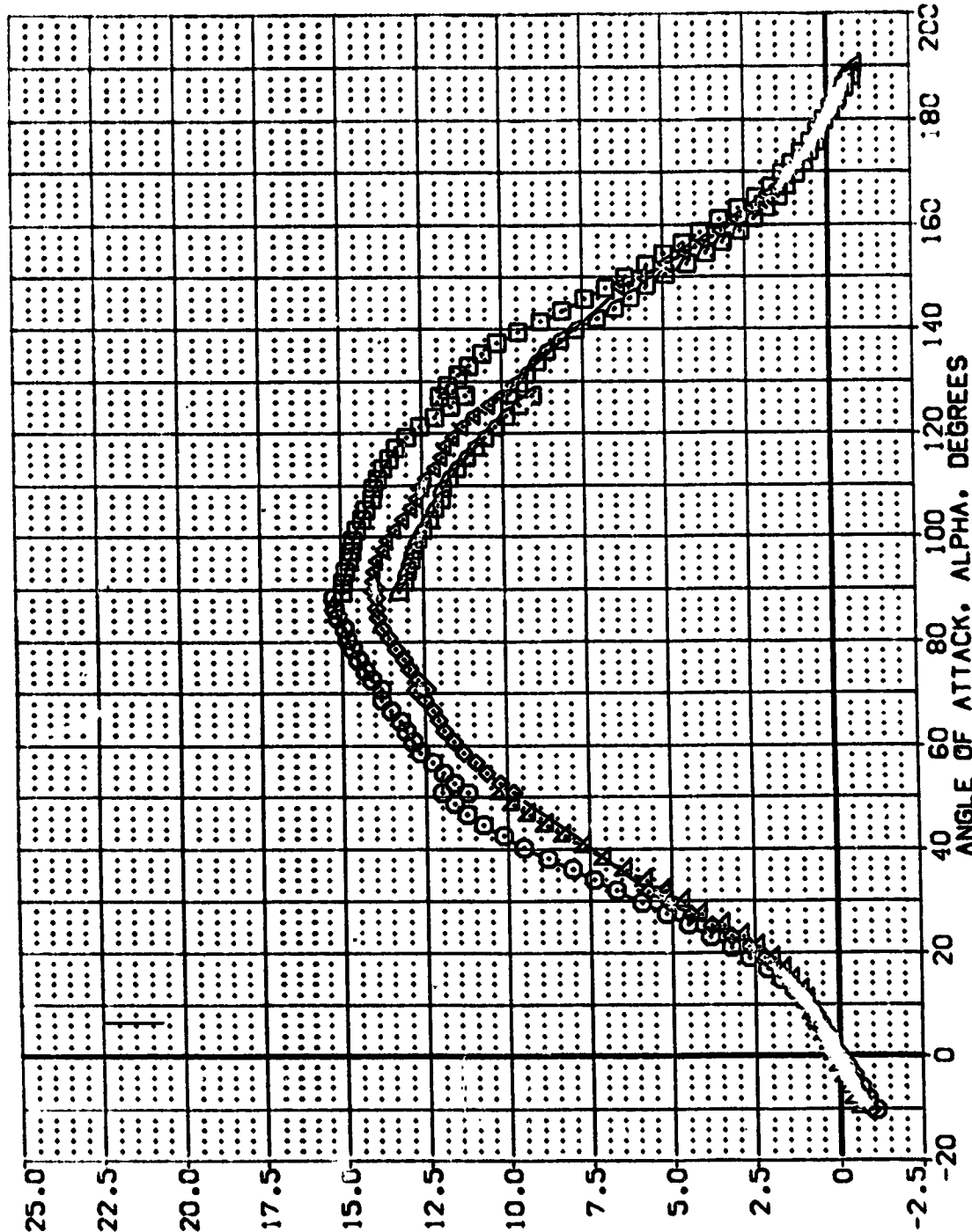


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION IN  
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BREF .9000  
XMRP .6330  
YMRP .0000  
ZMRP .0000  
SCALE .0074

BETA PHI  
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.000 315.000  
.000 337.500  
.000 337.500  
.000 .000  
.000 .000

DATA SET: S130L CONFIGURATION DESCRIPTION  
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RBT/AS3 15 C C 587(F4) TITAN SRM (NBETP)  
RBT/AS3 15 C C 587(F4) TITAN SRM (NBETP)  
RBT/AS3 15 C C 587(F4) TITAN SRM (NBETP)  
RBT/AS3 15 C C 587(F4) TITAN SRM (NBETP)  
RBT/AS3 15 C C 587(F4) TITAN SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CCMACH = 1.20

REFERENCE INFORMATION

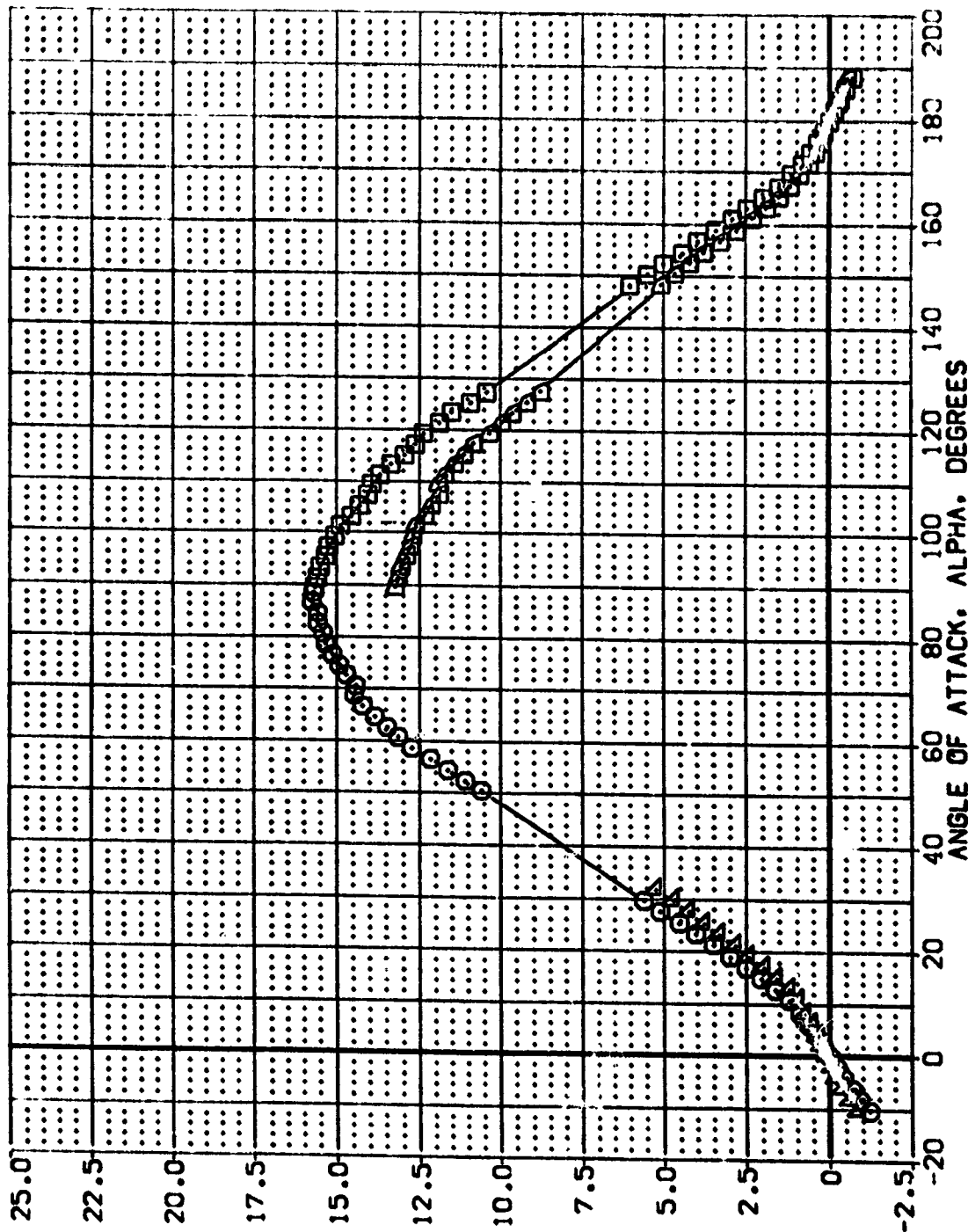
SREF .6360  
LREF .6000  
BREF .6000  
XPRP 4.6360  
YPRP .0000  
ZPRP .0000  
SCALE .0074

BETA PM

.000 315.000  
.000 315.000  
.000 337.500  
.000 337.500  
.000 337.500  
.000 337.500  
SCALE .0074

DATA SET SYMBOL CONFIGURATION DESCRIPTION

MSFC 587(F44) TITAN III C SRM (NBETP)  
MSFC 587(F44) TITAN III C SRM (NBETP)  
DATA NOT AVAILABLE  
MSFC 587(F44) TITAN III C SRM (NBETP)  
MSFC 587(F44) TITAN III C SRM (NBETP)



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(O)MACH = 1.96

PAGE 76

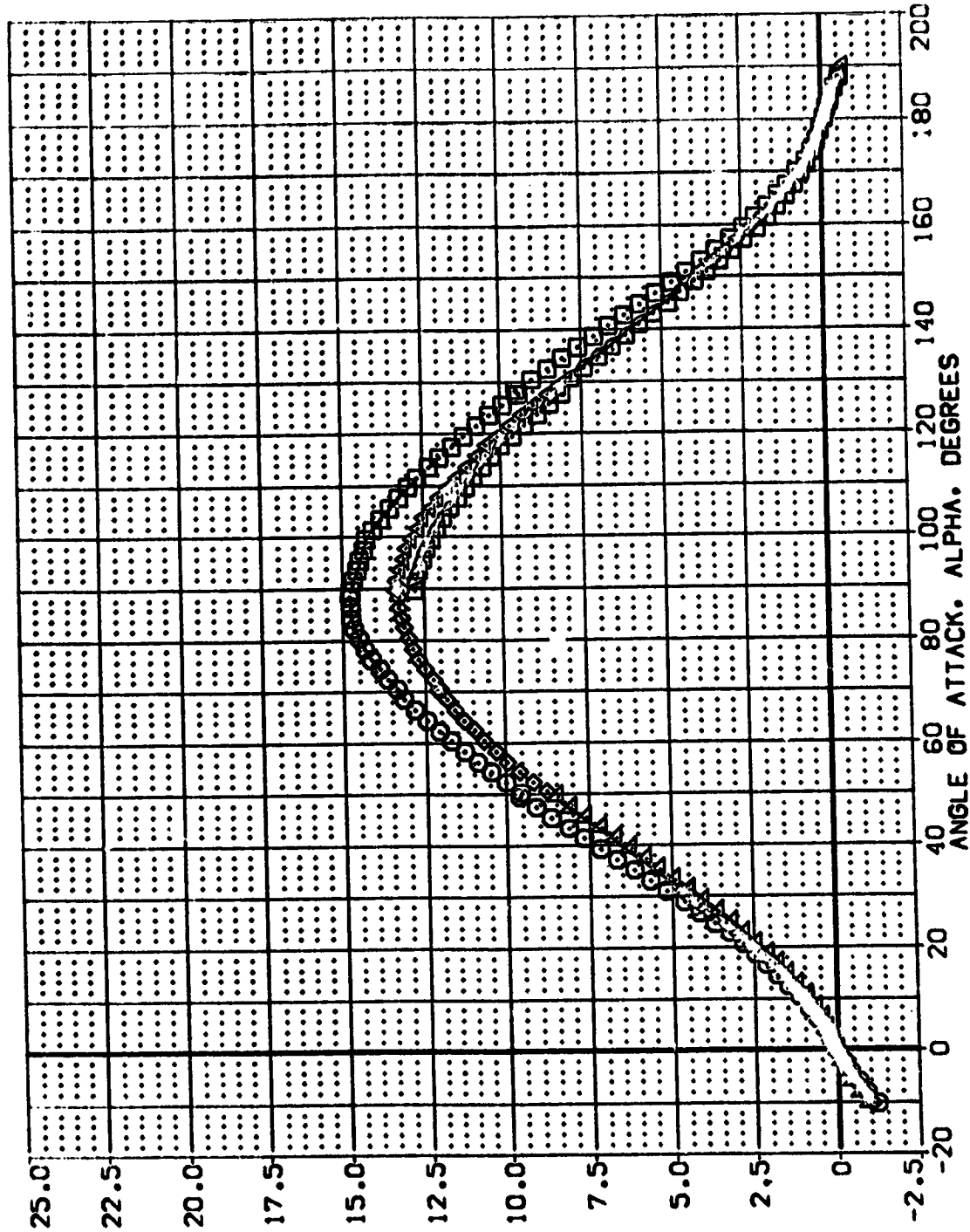


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION IN  
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BREF 6000  
YMRP 4.6330  
ZMRP 0.0000  
SCALE 0.074

BETA PM 315.000  
.000 315.000  
.000 315.000  
.000 337.500  
.000 337.500  
.000 337.500  
.000 337.500  
SCALE .000

DATA SET SYMBO. CONFIGURATION DESCRIPTION SRM (NBETP)  
[ 587(A4) ] TITAN III C SRM (NBETP)  
[ 587(A4) ] TITAN III C SRM (NBETP)  
[ 587(A4) ] TITAN III C SRM (NBETP)  
[ 587(A4) ] TITAN III C SRM (NBETP)  
[ 587(A4) ] TITAN III C SRM (NBETP)  
[ 587(A4) ] TITAN III C SRM (NBETP)  
[ 587(A4) ] TITAN III C SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(CJMACH = 3.48

REFERENCE INFORMATION

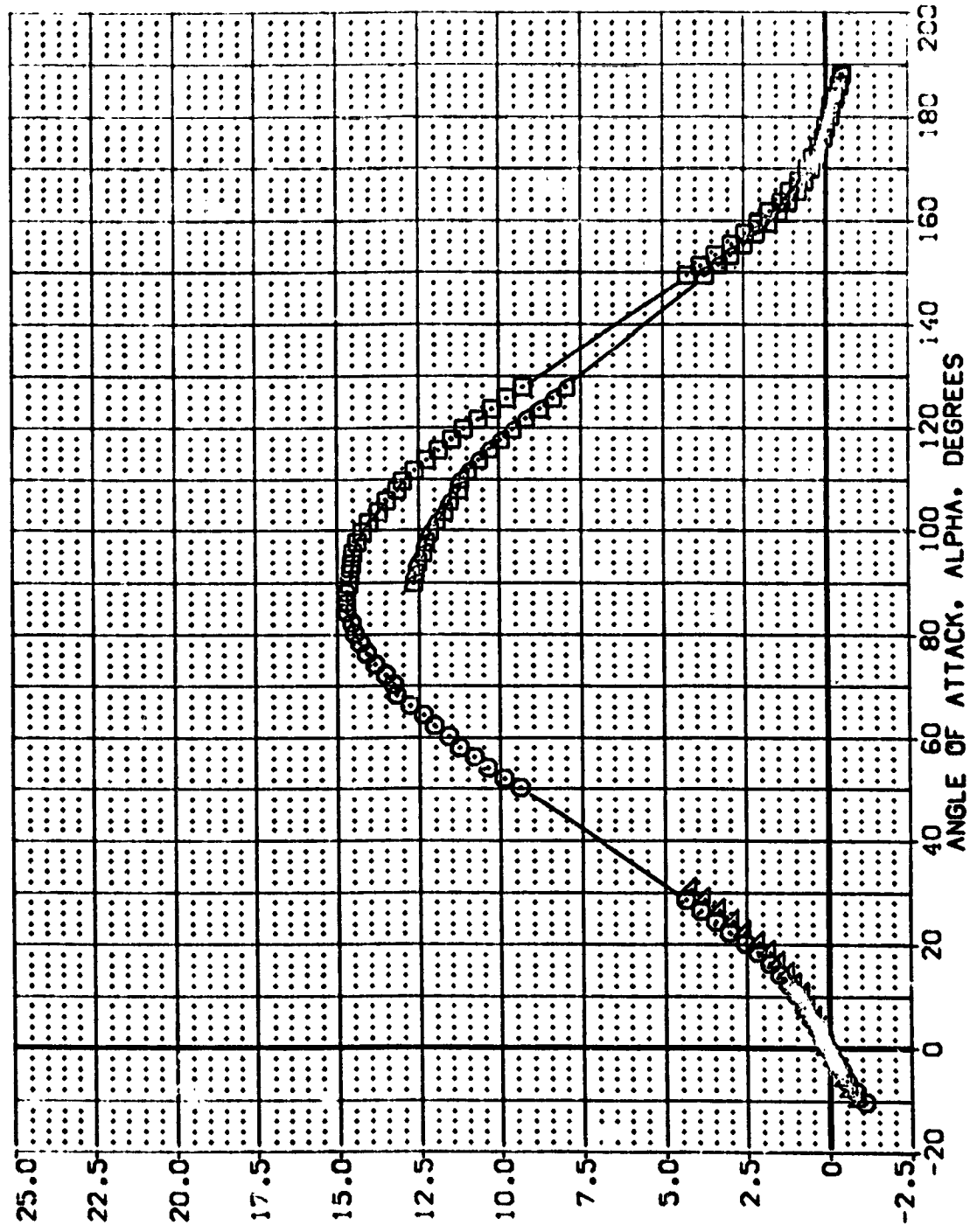
SREF 6.360  
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BREF 6.000  
XMRP 4.6330  
YMRP 0.0000  
ZMRP 0.0000  
SCALE .0074

BETA PHI

.000 315.000  
.000 315.000  
.000 397.500  
.000 397.500  
.000 .000  
.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

MS C 587(F4) TITAN III C SRM (NBETP)  
MS C 587(F4) TITAN III C SRM (NBETP)  
DATA NOT AVAILABLE  
MS C 587(F4) TITAN III C SRM (NBETP)  
MS C 587(F4) TITAN III C SRM (NBETP)



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

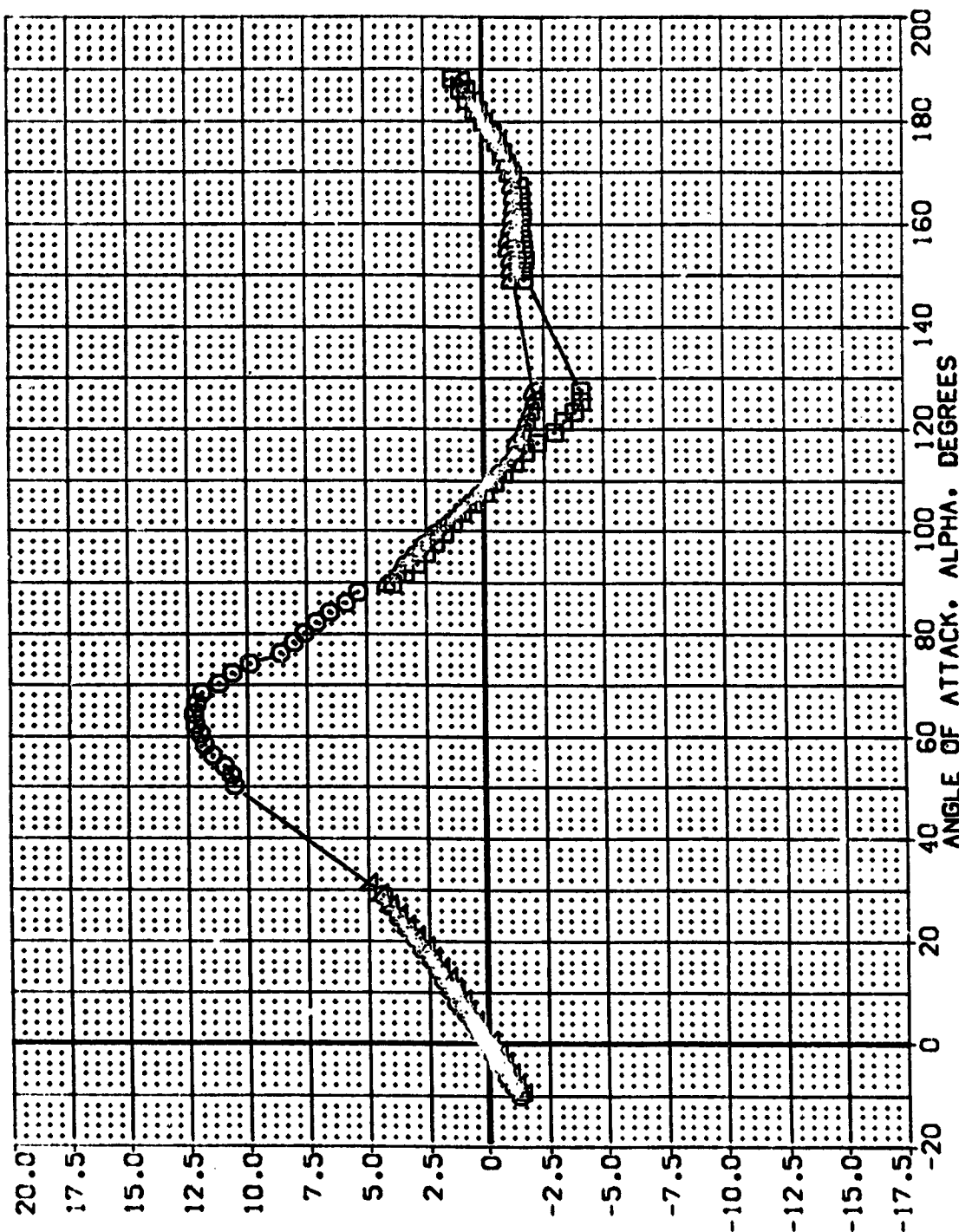


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
SREF 6360 IN  
LREF 9000 IN  
BREF 9000 IN  
XMRP 4.6330 IN  
YMRP .0000 IN  
ZMRP .0000 IN  
SCALE .0074

BETA PH-1  
.000 315.000  
.000 315.000  
.000 337.500  
.000 337.500  
.000 .000  
.000 .000

DATA SET S-80 CONFIGURATION DESCRIPTION  
RSTAC1] NSC 587(FA4) TITAN III C SRM (NBETP)  
RSTAC2] NSC 587(FA4) TITAN III C SRM (NBETP)  
RSTAC3] DATA NOT AVAILABLE  
RSTAC4] DATA NOT AVAILABLE  
RSTAC5] NSC 587(FA4) TITAN III C SRM (NBETP)  
RSTAC6] NSC 587(FA4) TITAN III C SRM (NBETP)



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CAJMACH = .60

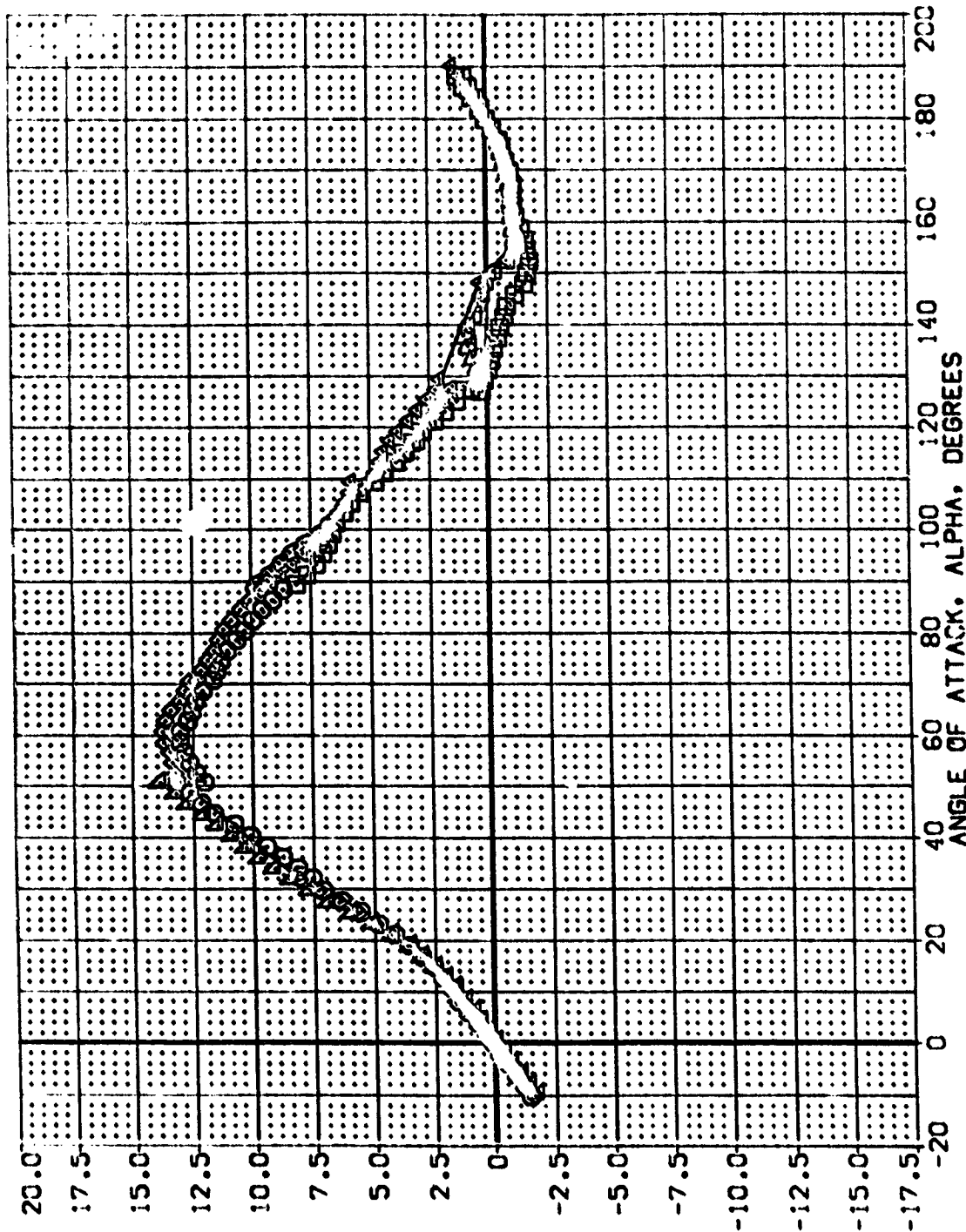


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
SREF 6360  
LREF 6360  
BREF 6360  
XREF 6360  
YREF 6360  
ZREF 6360  
SCALE 0074

BETA PH  
000 315.000  
000 315.000  
000 337.500  
000 337.500  
000 337.500  
000 337.500  
000 337.500  
000 337.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
S87(EA) TITAN SRM (NBETP)  
S87(EA) TITAN SRM (NBETP)  
S87(EA) TITAN SRM (NBETP)  
S87(EA) TITAN SRM (NBETP)  
S87(EA) TITAN SRM (NBETP)  
S87(EA) TITAN SRM (NBETP)  
S87(EA) TITAN SRM (NBETP)  
S87(EA) TITAN SRM (NBETP)



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

COMAC = 1.20



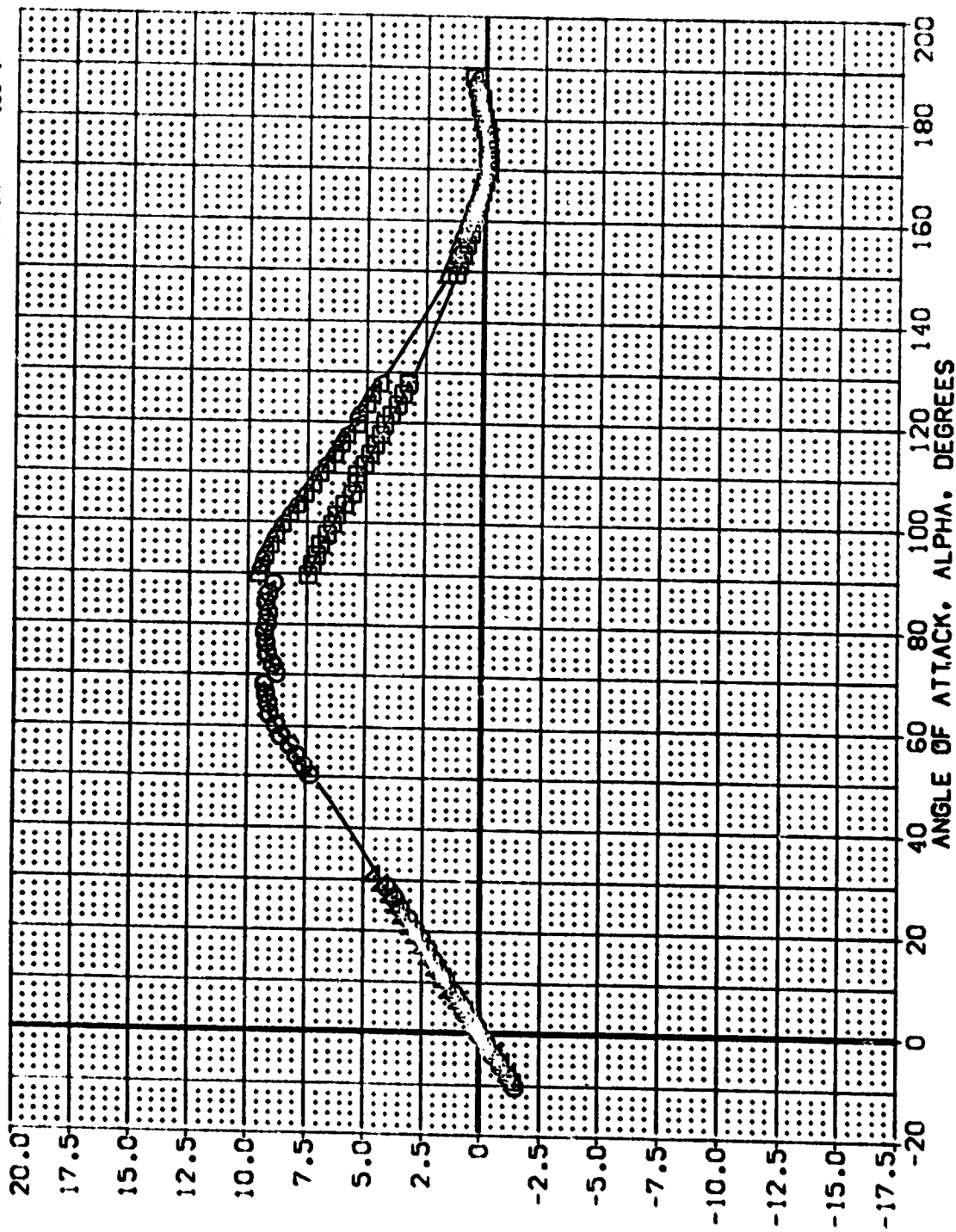


DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHI
[RSTAC5]	MSC SB7(FA4) TITAN III C SRM (NBETP)	.000	315.000
[RSTAC6]	MSC SB7(FA4) TITAN III C SRM (NBETP)	.000	315.000
[RSTAC7]	DATA NOT AVAILABLE	.000	337.500
[RSTAC8]	DATA NOT AVAILABLE	.000	337.500
[RSTAC9]	MSC SB7(FA4) TITAN III C SRM (NBETP)	.000	.000
[RSTAC10]	MSC SB7(FA4) TITAN III C SRM (NBETP)	.000	.000

REFERENCE INFORMATION

REFERENCE INFORMATION	SCALE
SREF	.6360
LREF	.8000
BREF	.8000
YMRP	4.6330
ZMRP	.0000
SCALE	.0074



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

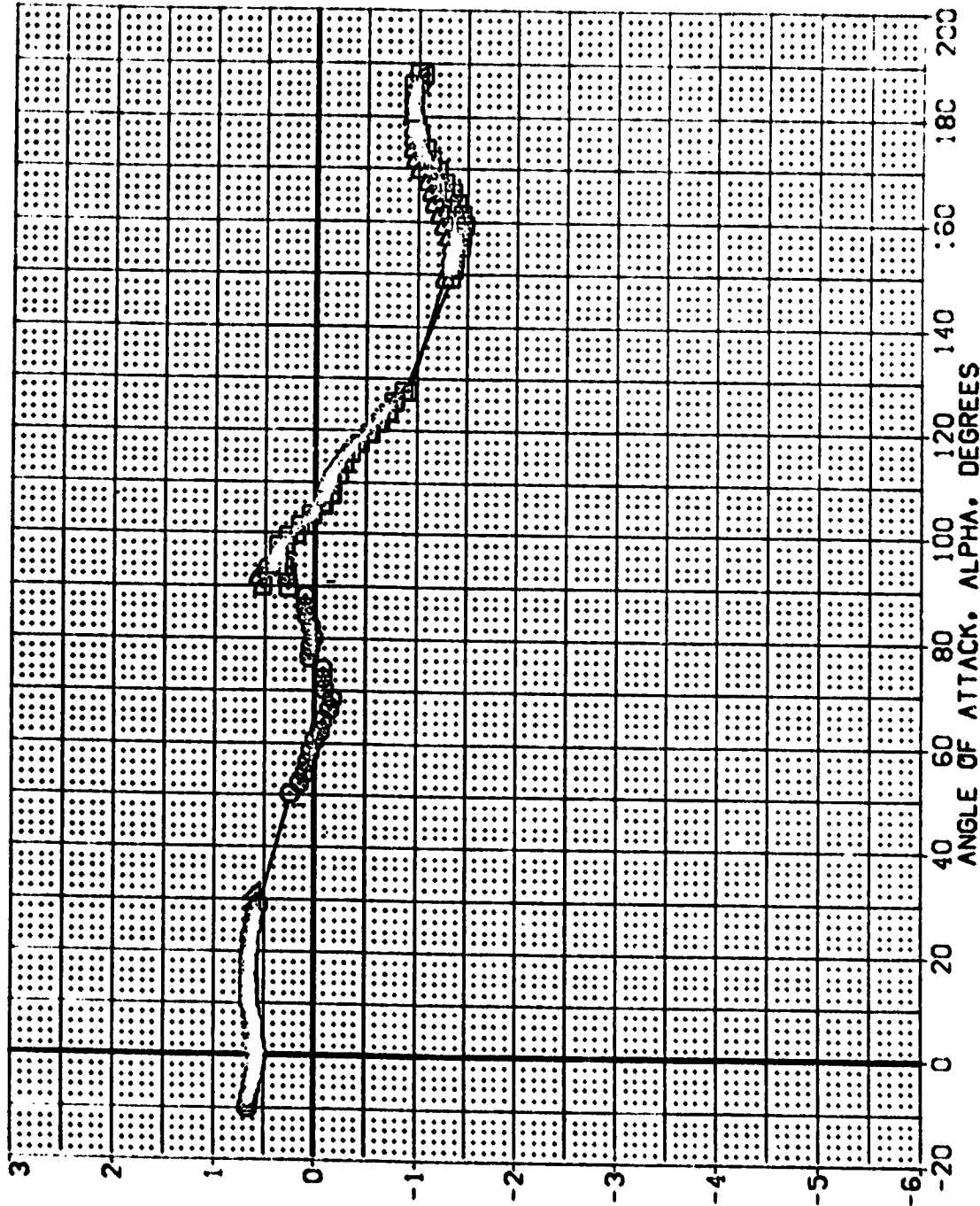


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
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LREF .9000  
BREF .9000  
XREF .9000  
YREF .9000  
ZREF .9000  
SCALE .0074

BETA PH1  
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.000 315.000  
.000 337.500  
.000 337.500  
.000 .000  
.000 .000

DATA 5 S-BC CONFIGURATION DESCRIPTION  
RSTAC2 SBTIFAA1 TITAN III C SRM (NBETP)  
RSTAC3 SBTIFAA1 TITAN III C SRM (NBETP)  
RSTAC4 SBTIFAA1 TITAN III C SRM (NBETP)  
RSTAC5 SBTIFAA1 TITAN III C SRM (NBETP)  
RSTAC6 SBTIFAA1 TITAN III C SRM (NBETP)  
RSTAC7 SBTIFAA1 TITAN III C SRM (NBETP)  
RSTAC8 SBTIFAA1 TITAN III C SRM (NBETP)  
RSTAC9 SBTIFAA1 TITAN III C SRM (NBETP)  
RSTAC10 SBTIFAA1 TITAN III C SRM (NBETP)



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

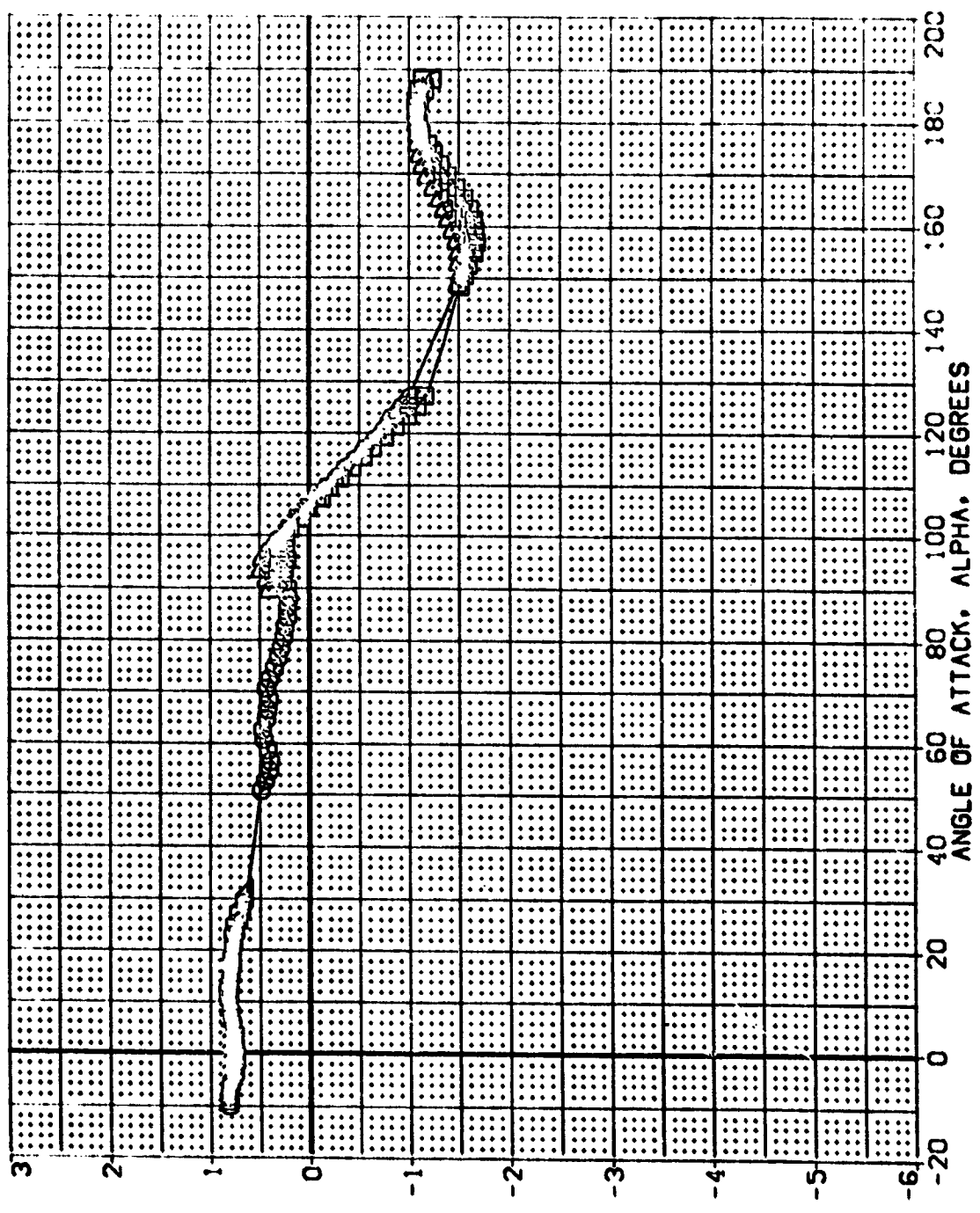
(A)MACH = .60

DATA SET SYMBOL: 287A05  
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 287A07  
 287A08  
 287A09  
 287A10  
 287A11  
 287A12

CONFIGURATION DESCRIPTION:  
 MS-C 587(F44) TITAN III C SRM (NBETP)  
 MS-C 587(F44) TITAN III C SRM (NBETP)  
 MS-C 587(F44) TITAN III C SRM (NBETP)  
 DATA NOT AVAILABLE  
 MS-C 587(F44) TITAN III C SRM (NBETP)  
 MS-C 587(F44) TITAN III C SRM (NBETP)

BETA PHI  
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 .000 315.000  
 .000 337.500  
 .000 337.500  
 .000 .000  
 .000 .000  
 .000 .000

REFERENCE INFORMATION IN  
 SREF 6350  
 LREF 6000  
 BREF 6000  
 XMRP 4.6330  
 YMRP 6000  
 ZMRP 6000  
 SCALE 6074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

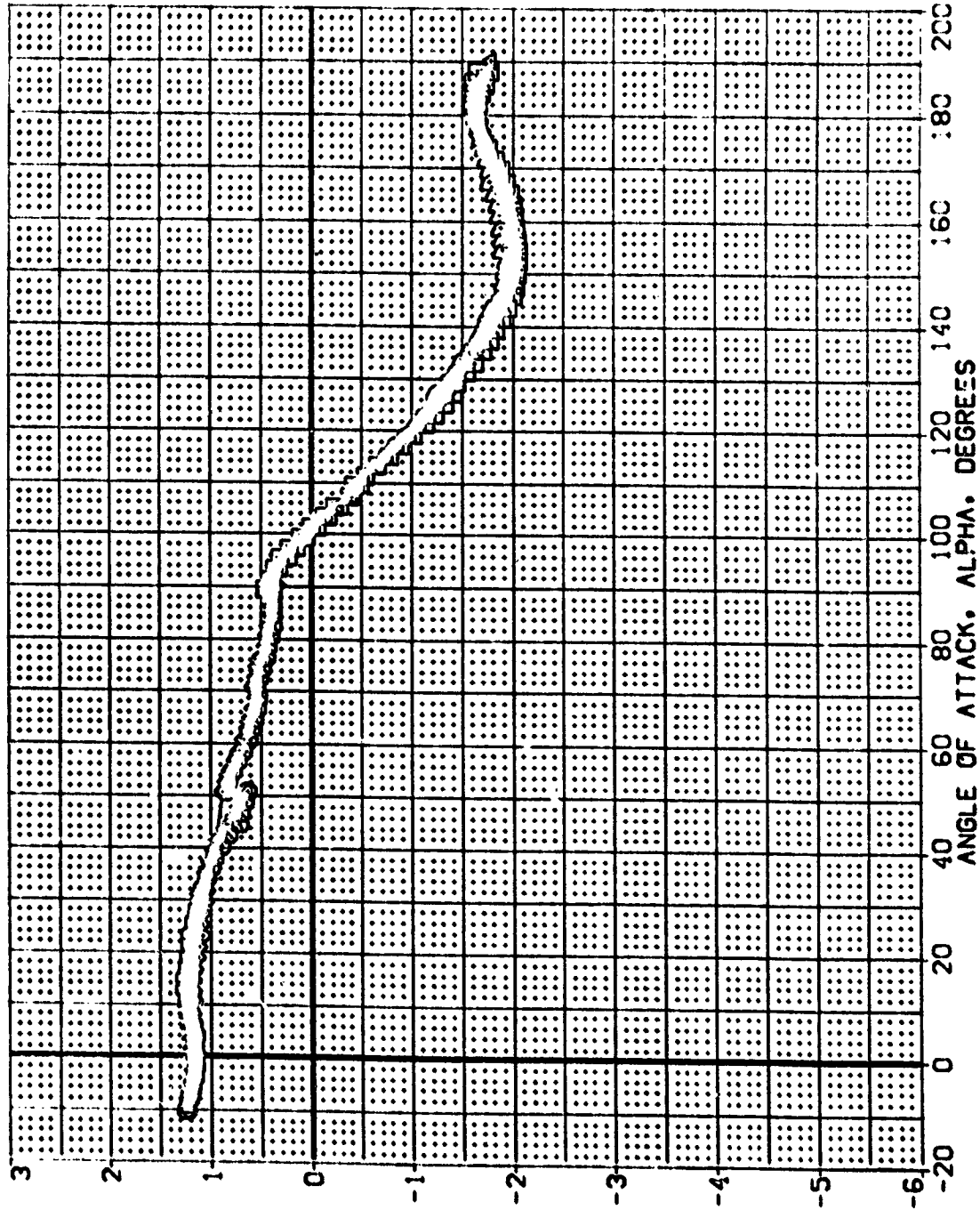




REFERENCE INFORMATION  
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BREF 5000  
XMRP 4.6330  
YMRP 0.0000  
ZMRP 0.0000  
SCALE 0.0074

BETA PHI  
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0.000 315.000  
0.000 337.500  
0.000 337.500  
0.000 0.000  
0.000 0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION SRM (NBETP)  
587(A4) TITAN SRM (NBETP)  
587(A4) TITAN SRM (NBETP)  
587(A4) TITAN SRM (NBETP)  
587(A4) TITAN SRM (NBETP)  
587(A4) TITAN SRM (NBETP)  
587(A4) TITAN SRM (NBETP)

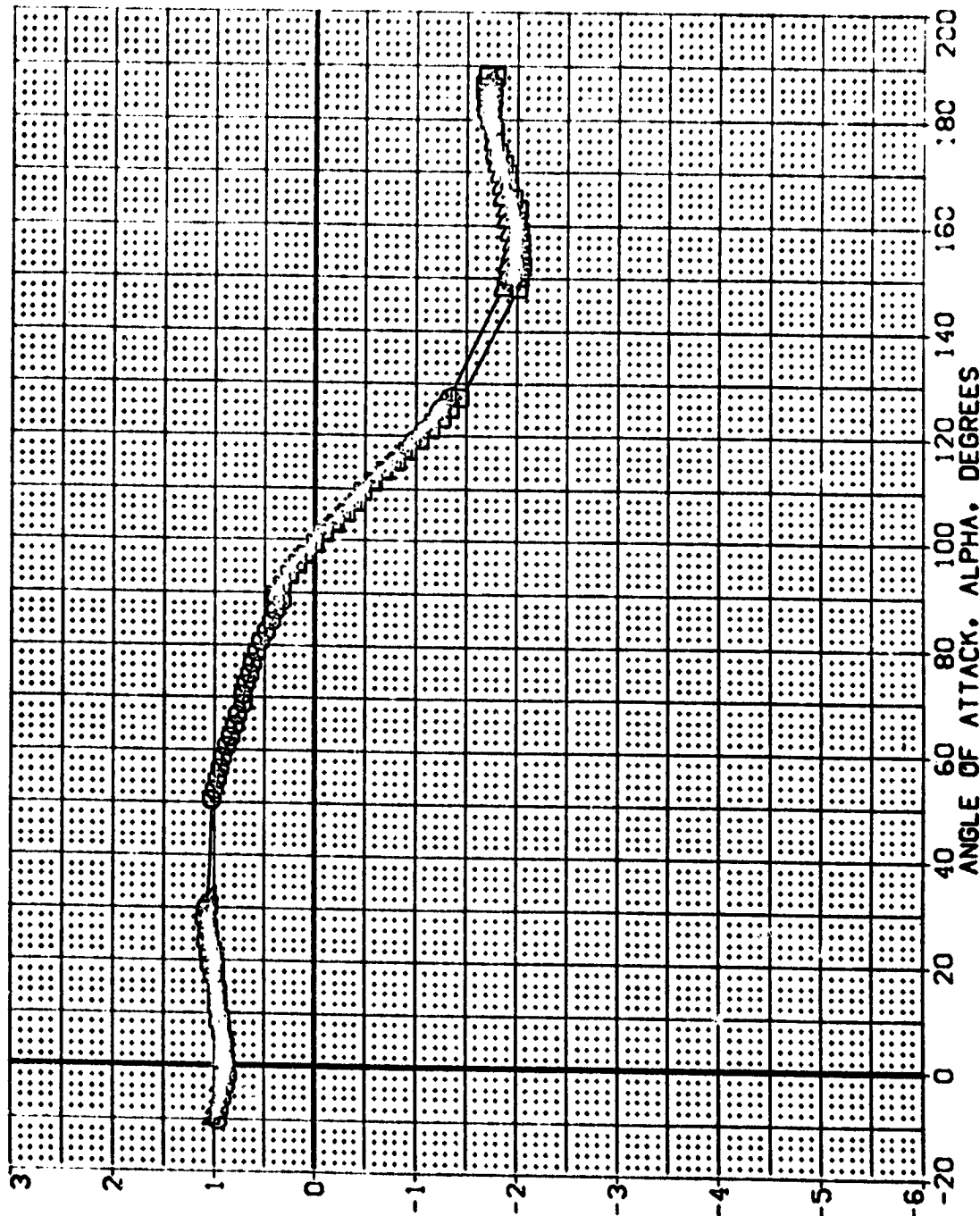


LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.20

DATA SET SYMB. CONFIGURATION DESCRIPTION

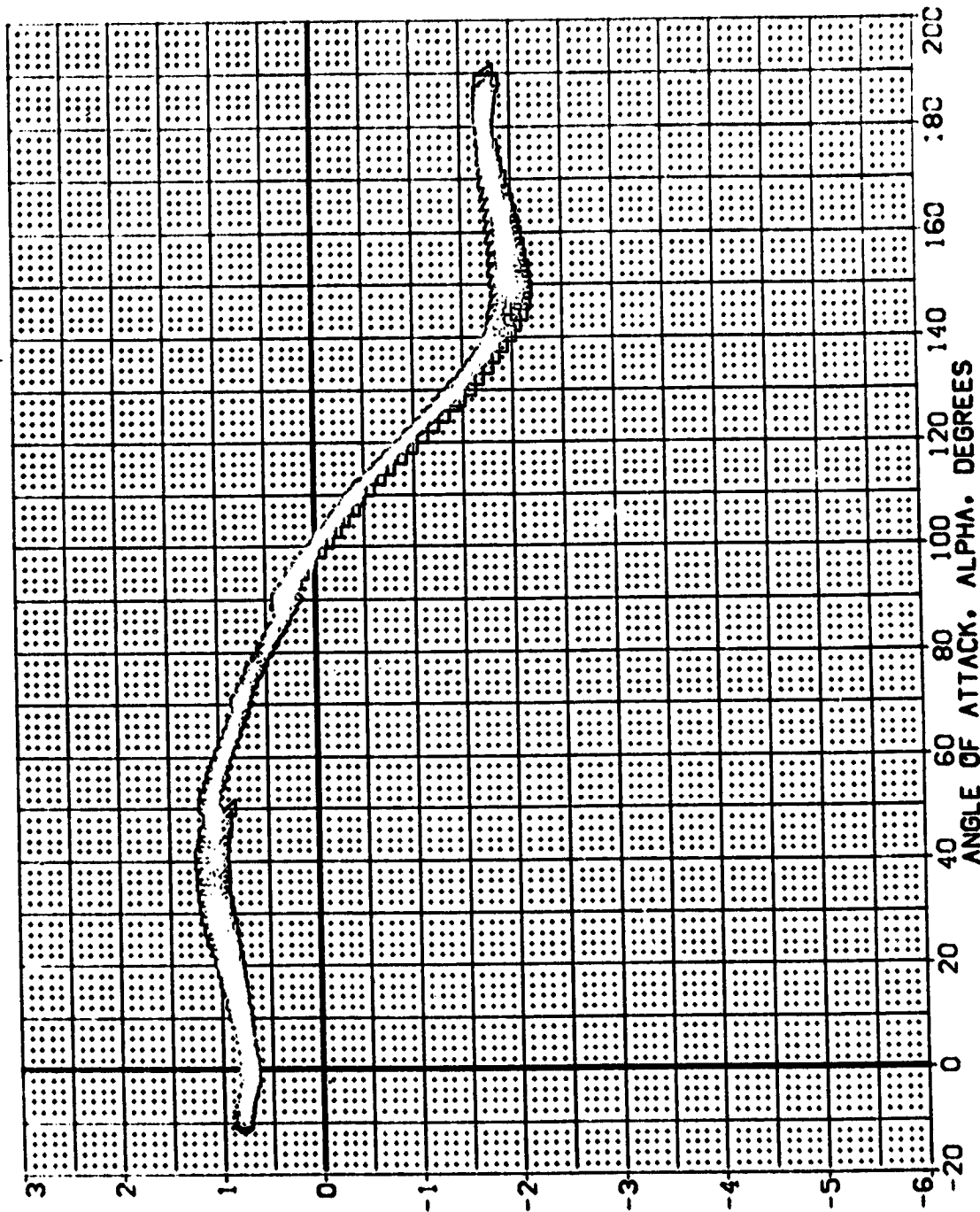
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DATA NOT AVAILABLE		.000	337.500	Y-PRP .0000
MS-C 587(F44)	TITAN III C SRM (NBETP)	.000	.000	Z-PRP .0000
MS-C 587(F44)	TITAN III C SRM (NBETP)	.000	.000	SCALE .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(O)MACH = 1.96

AXIAL FORCE COEFFICIENT, CA



# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

**CE)MACH = 3.48**

**PAGE 88**

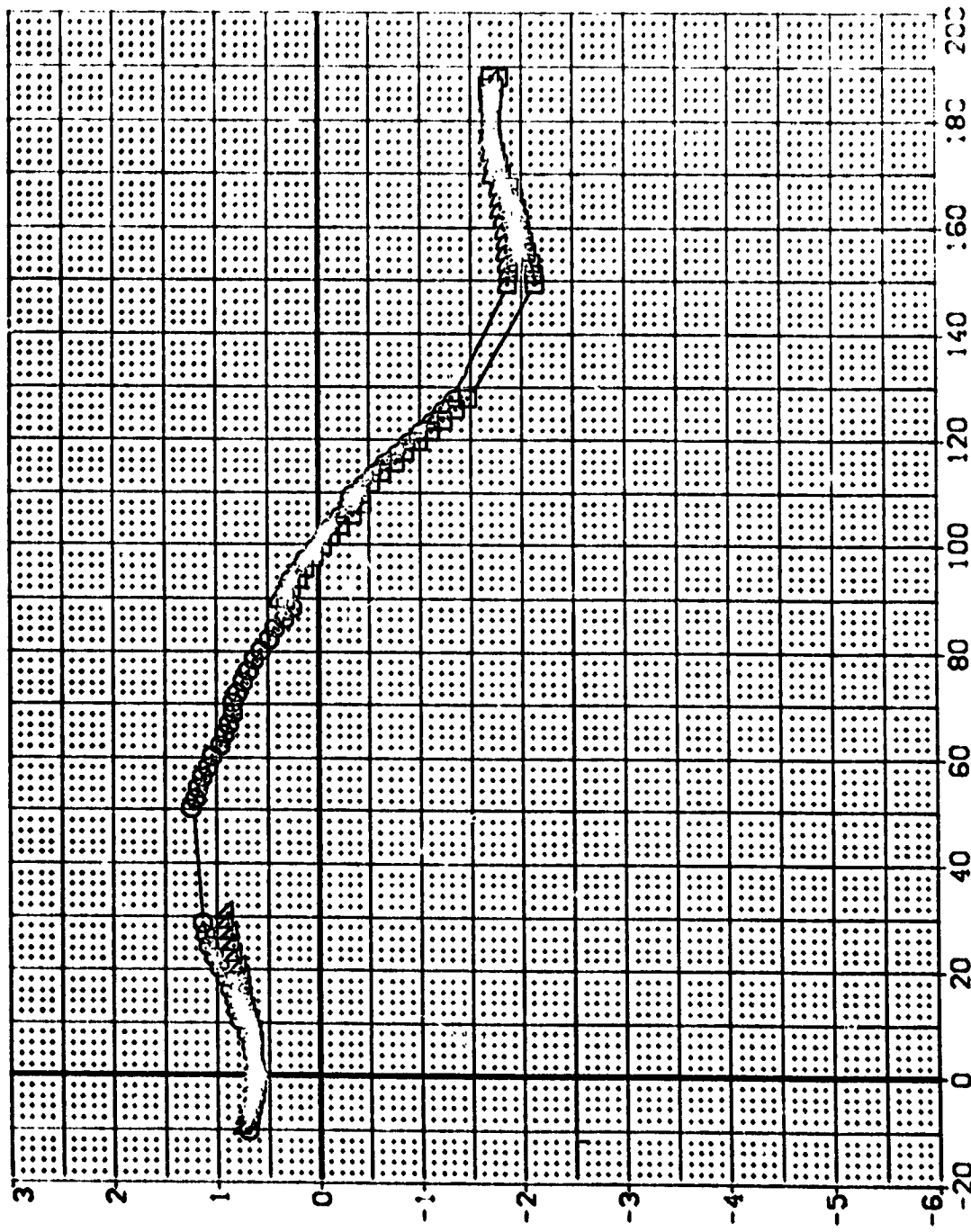


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XPRP 4 6330  
YPRP 0000  
ZPRP 0000  
SCALE 0074

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000 315.000  
000 337.500  
000 337.500  
000 000.000  
000 000.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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[RSTAC3] DATA NOT AVAILABLE  
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[RSTAC1] MSC 587(FA4) TITAN III C SRM (NBETP)  
[RSTAC2] MSC 587(FA4) TITAN III C SRM (NBETP)

AXIAL FORCE COEFFICIENT, CA



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

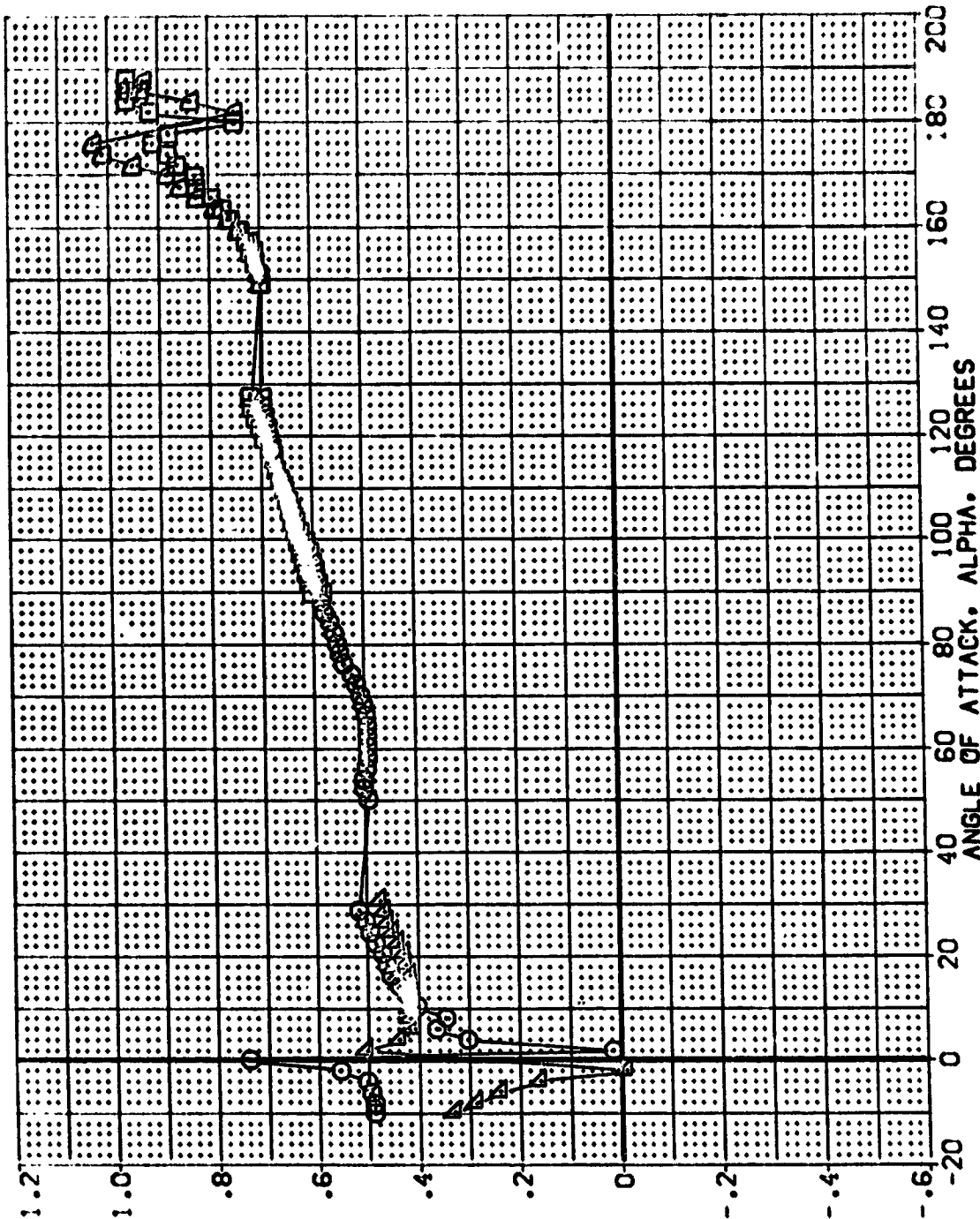
(F)MACH = 4.96

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SCALE	.0074

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.000	315.000
.000	337.500
.000	337.500
.000	.000
.000	.000

[illegible][illegible]

CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH. XCP/L



# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

$$\{A\}MCH = .60$$

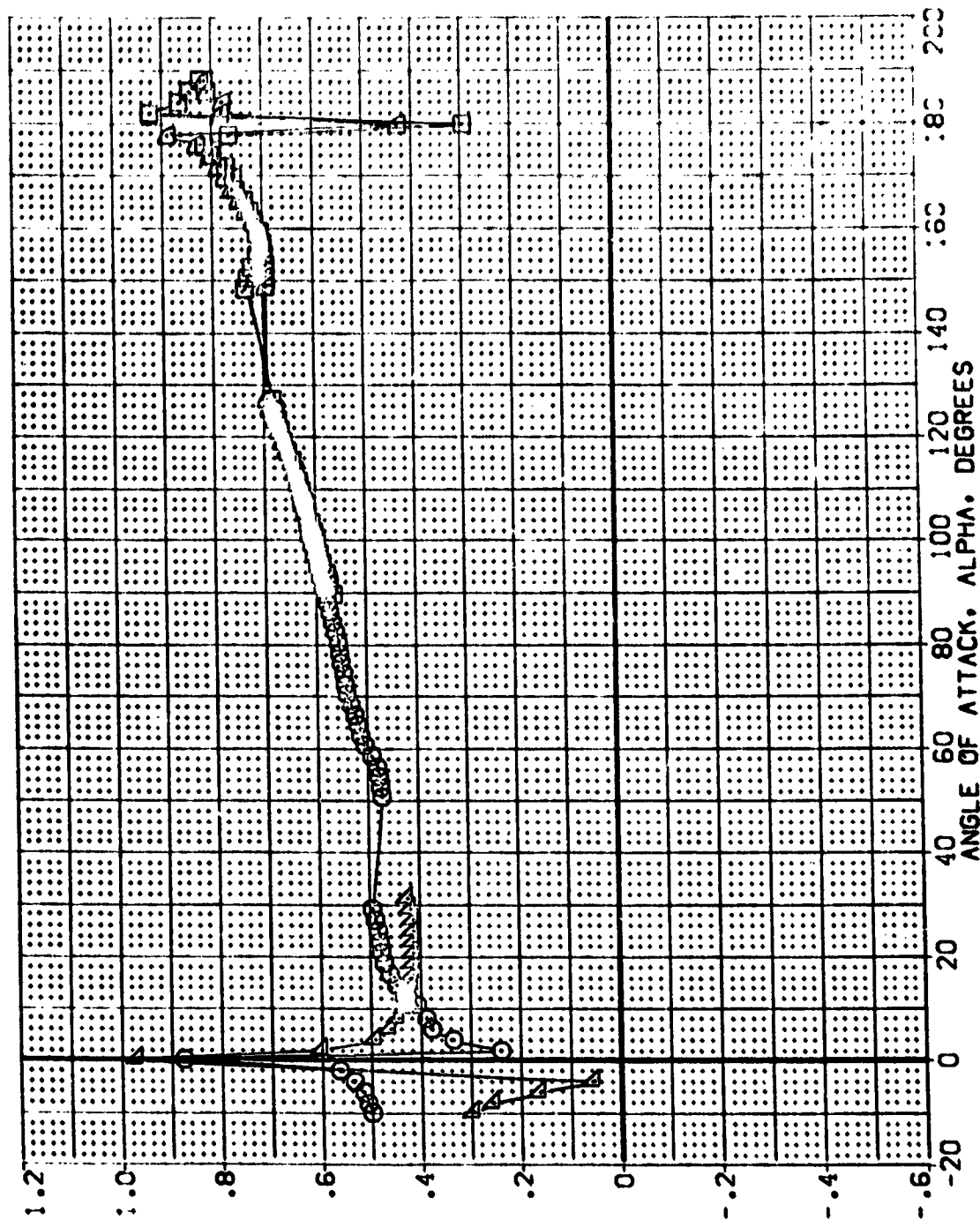


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[287A07] DATA NOT AVAILABLE  
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[287A09] MSC 587(FM4) TITAN III C SRM (NBETP)  
[287A10] MSC 587(FM4) TITAN III C SRM (NBETP)

CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90





CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

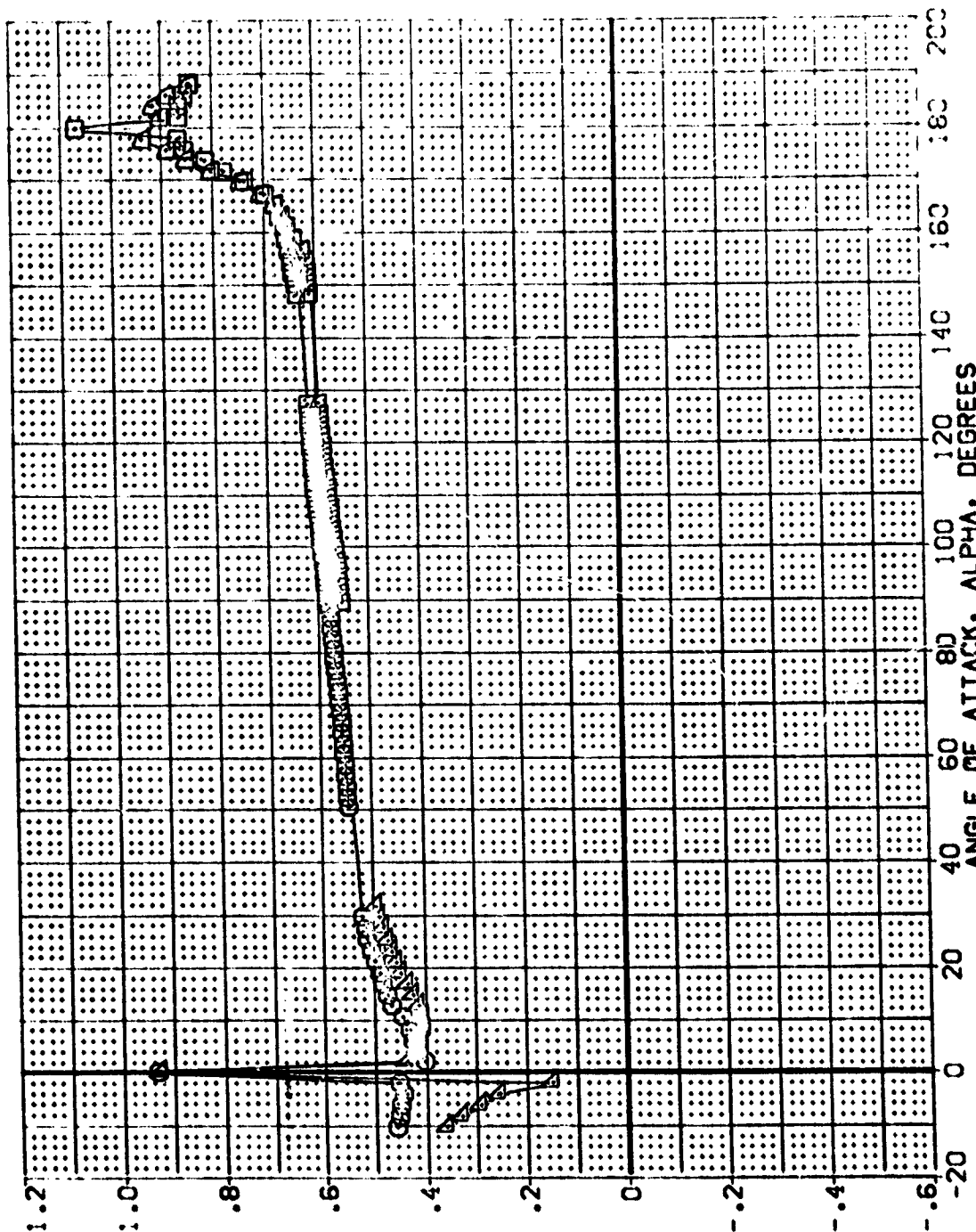
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BETA: .000, .000, .000, .000, .000, .000, .000, .000

PHI: 315.000, 315.000, 315.000, 337.500, 337.500, 337.500, 337.500, 337.500

REFERENCE INFORMATION: SREF: 6360, LREF: 6000, BREF: 6000, XMRP: 4.6330, YMRP: .0000, ZMRP: .0000, SCALE: .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

COJ MACH = 1.96



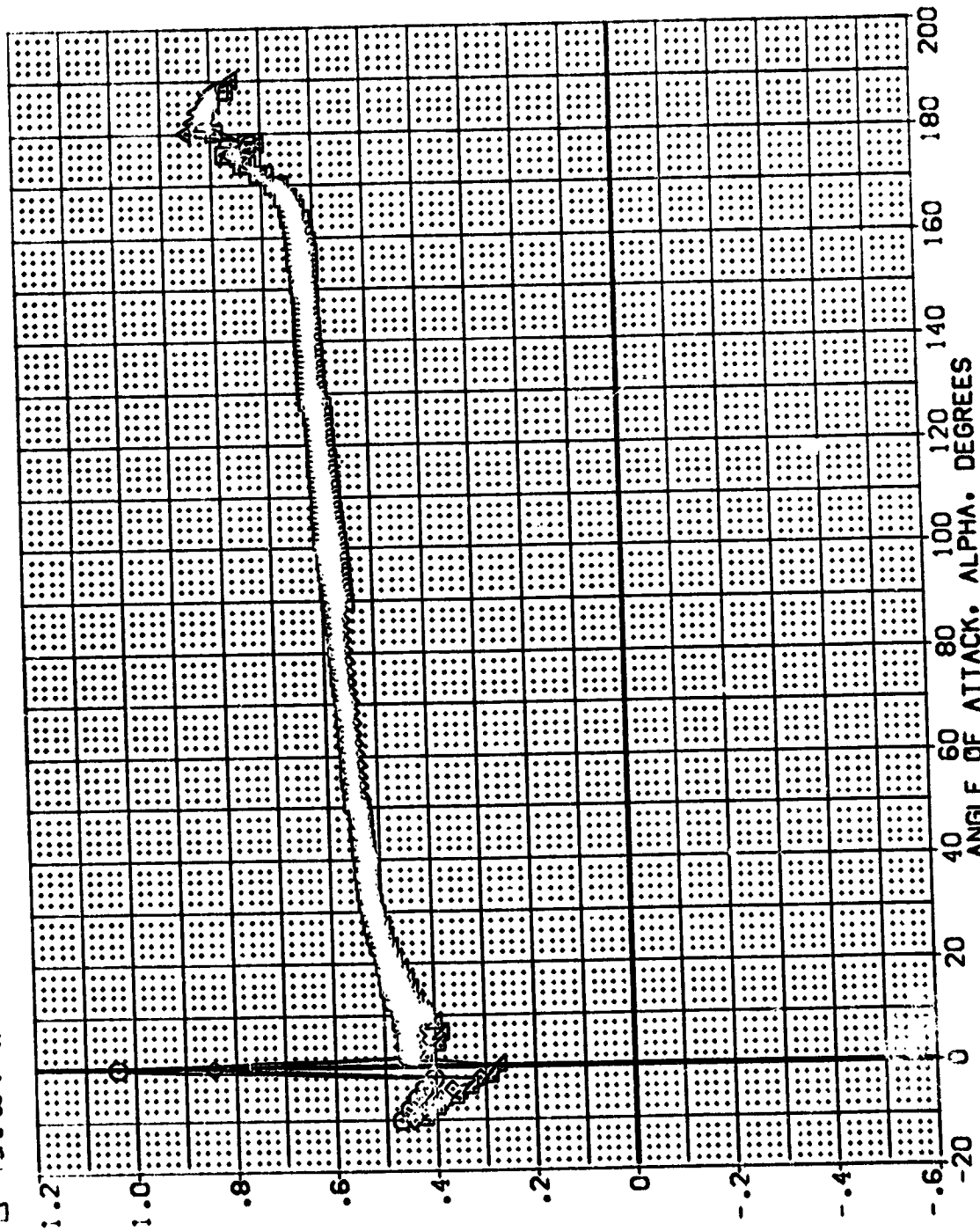
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SCALE .0074

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CONFIGURATION DESCRIPTION  
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SRM (NBETP)  
SRM (NBETP)  
SRM (NBETP)  
SRM (NBETP)  
SRM (NBETP)  
SRM (NBETP)  
SRM (NBETP)

SYMBOL  
SRM (NBETP)  
SRM (NBETP)  
SRM (NBETP)  
SRM (NBETP)  
SRM (NBETP)  
SRM (NBETP)  
SRM (NBETP)  
SRM (NBETP)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CEJ MACH = 3.48

# DATA SET SYMBOL

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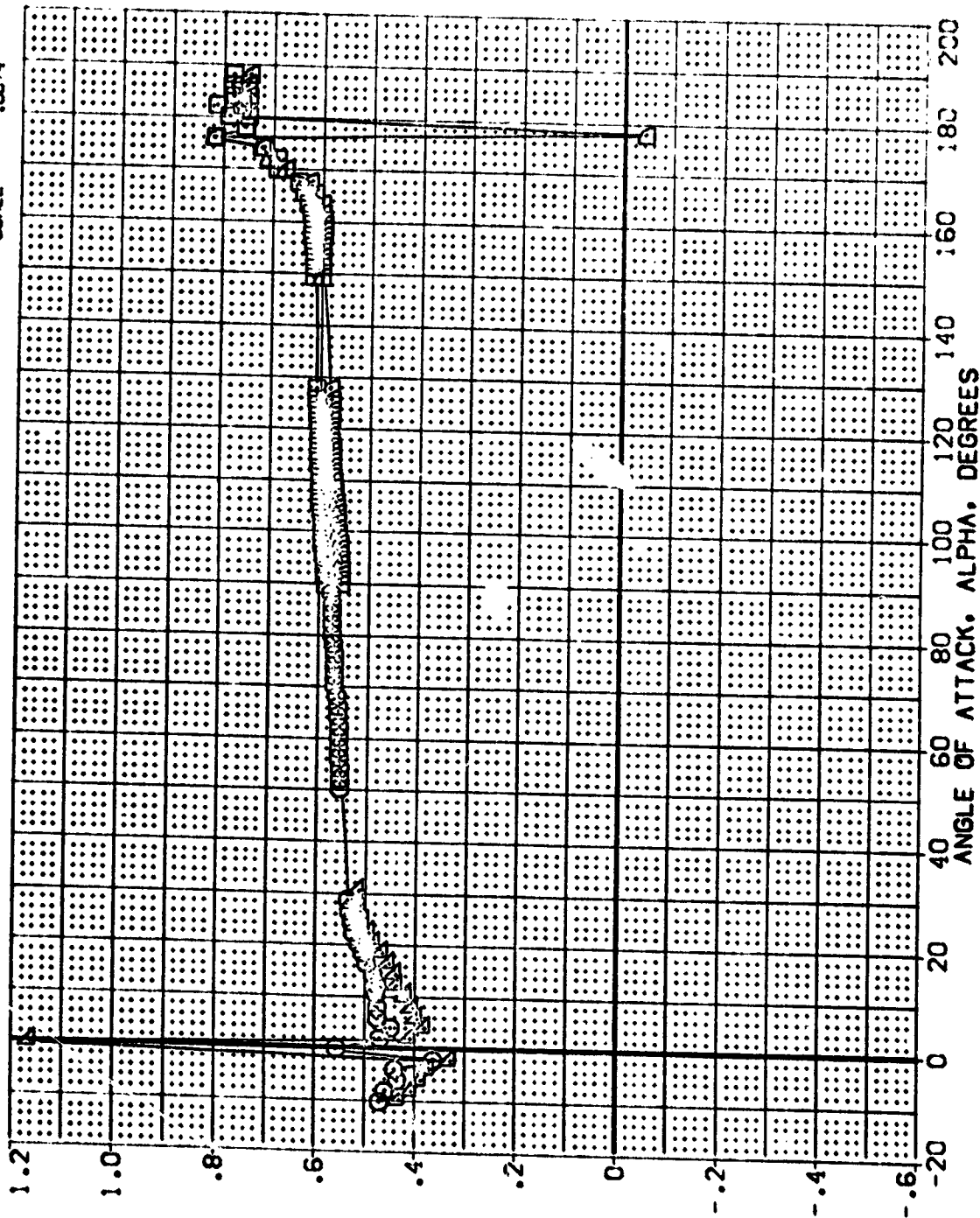
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# REFERENCE INFORMATION

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# LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(FM)MACH = 4.96

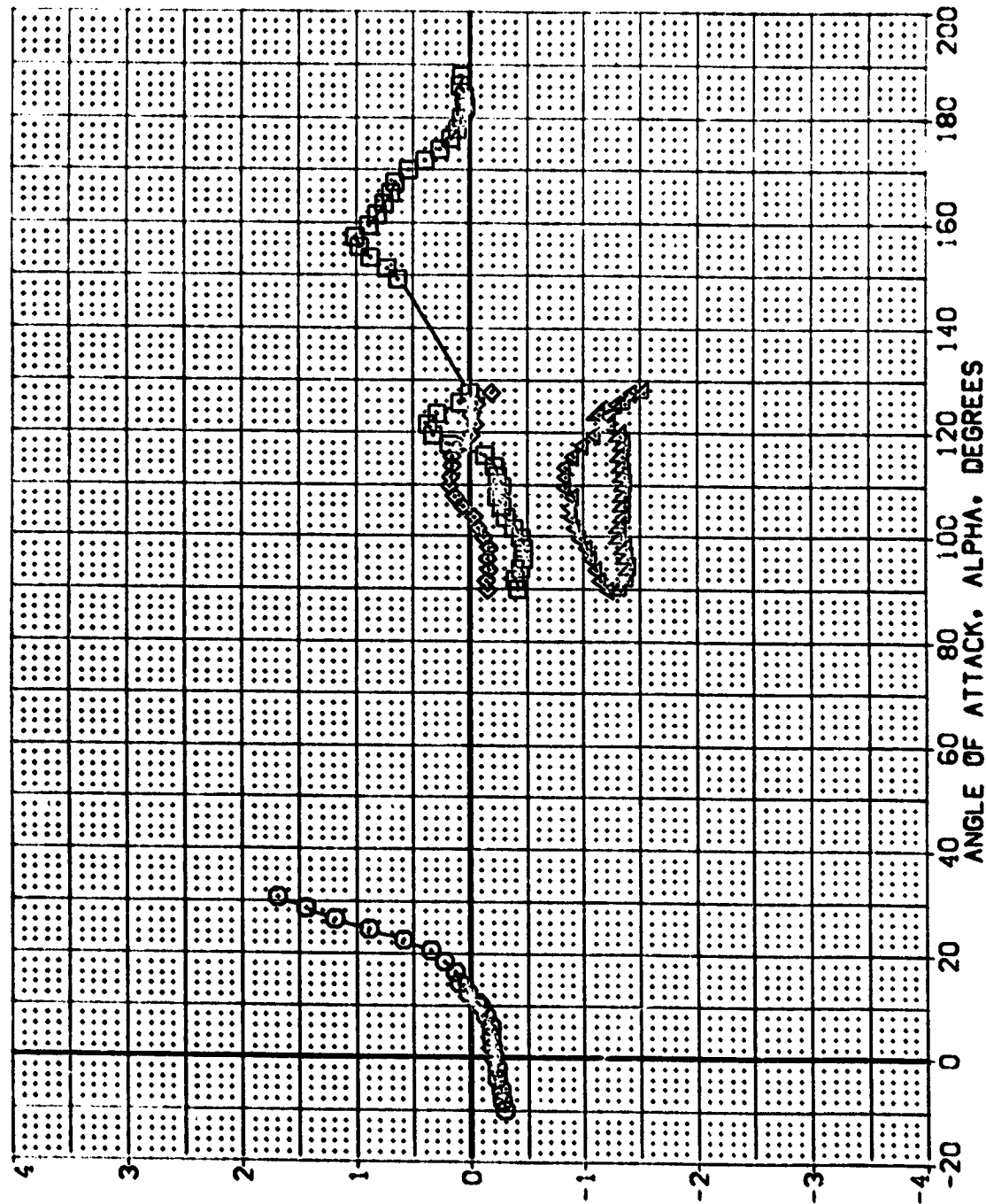
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[257A:4] MS C 587 (FA4) TITAN III C SRM (NBETP)  
[257A:5] MS C 587 (FA4) TITAN III C SRM (NBETP)

MISSILE AXIS SIDE FORCE COEFFICIENT, C<sub>YM</sub>



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(A)MACH = .59

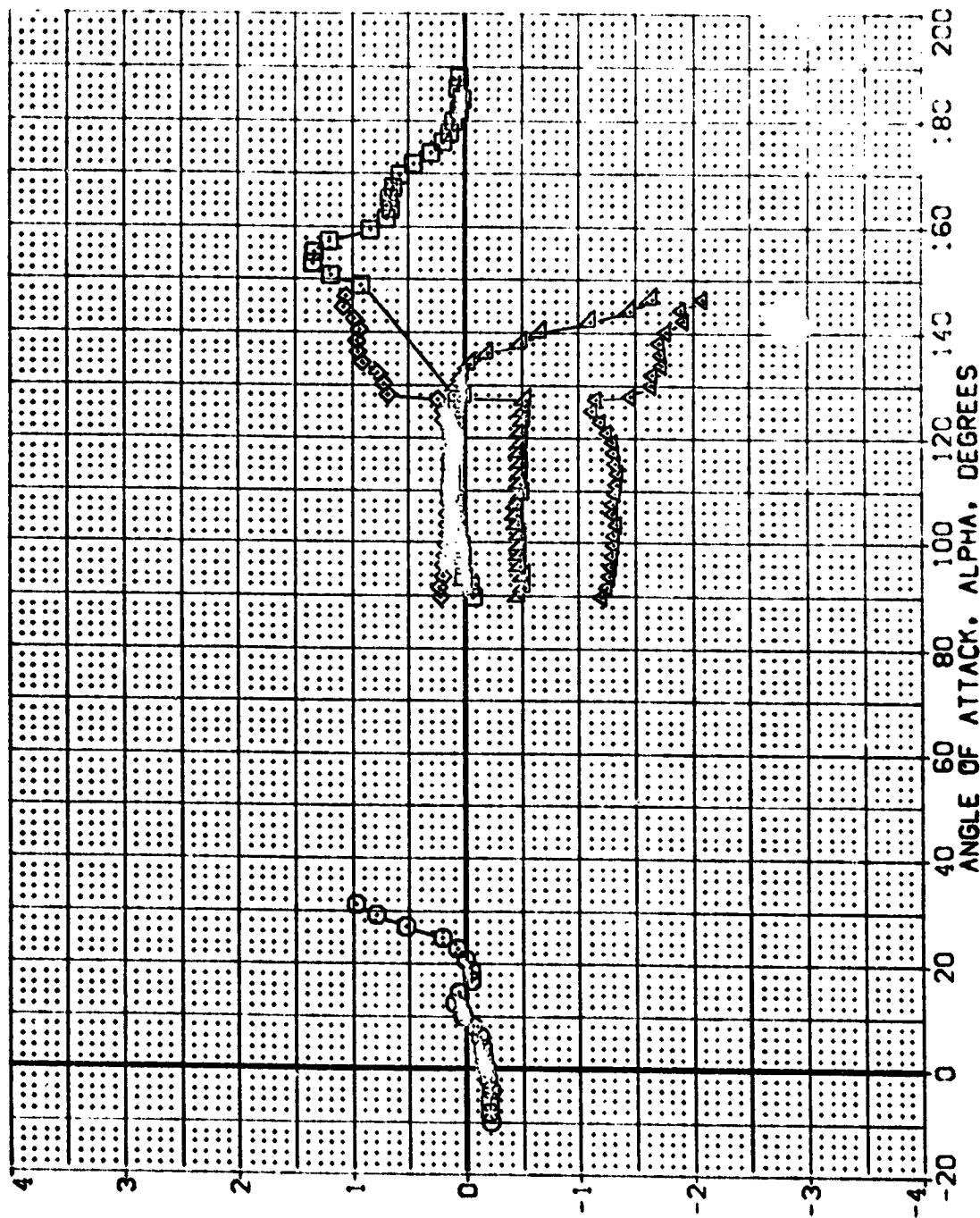


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[R57A21] MSFC 587(FA4) TITAN III C SRM (NBETP)  
[R57A20] MSFC 587(FA4) TITAN III C SRM (NBETP)  
[R57A:9] MSFC 587(FA4) TITAN III C SRM (NBETP)

MISSILE AXIS SIDE FORCE COEFFICIENT, CYM



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MACH = .90

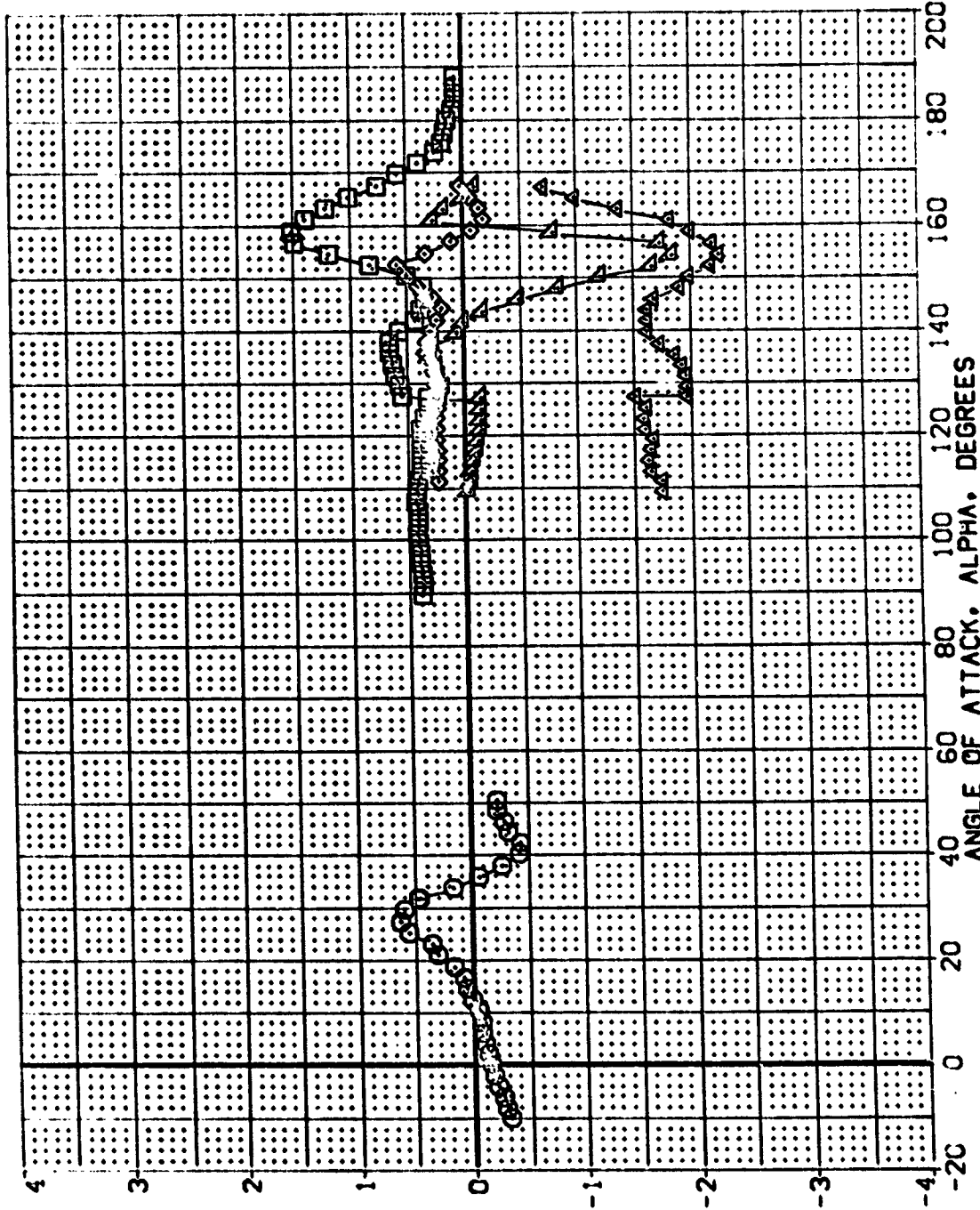
PAGE 98

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LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(C<sub>Y</sub>)<sub>MACH</sub> = 1.20

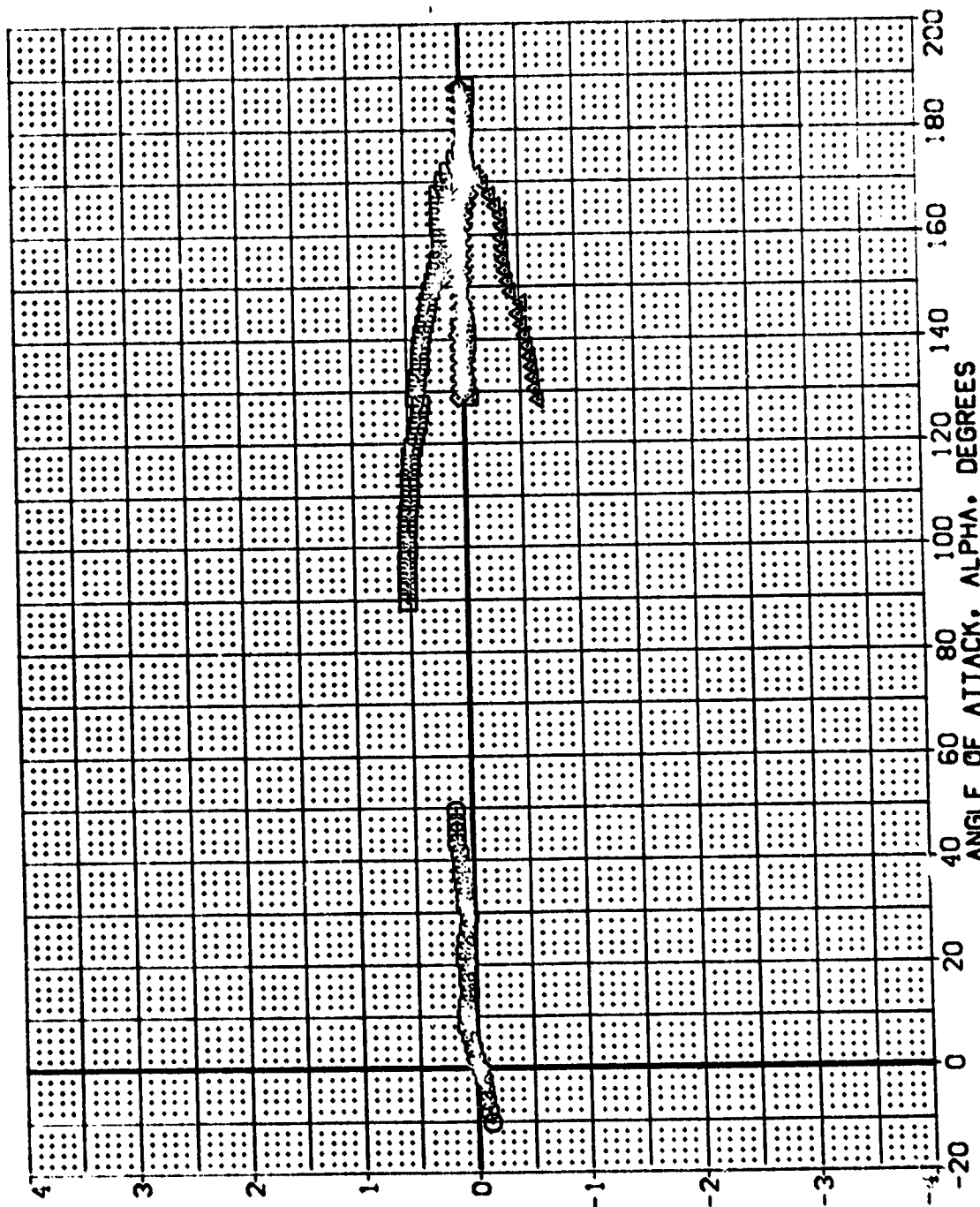


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 .000 135.000

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 587(F44) TITAN C SRM (NBETP)  
 587(F44) TITAN C SRM (NBETP)  
 587(F44) TITAN C SRM (NBETP)  
 587(F44) TITAN C SRM (NBETP)

MISSILE AXIS SIDE FORCE COEFFICIENT, C<sub>YM</sub>



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(E)MACH = 3.48



PAGE 02



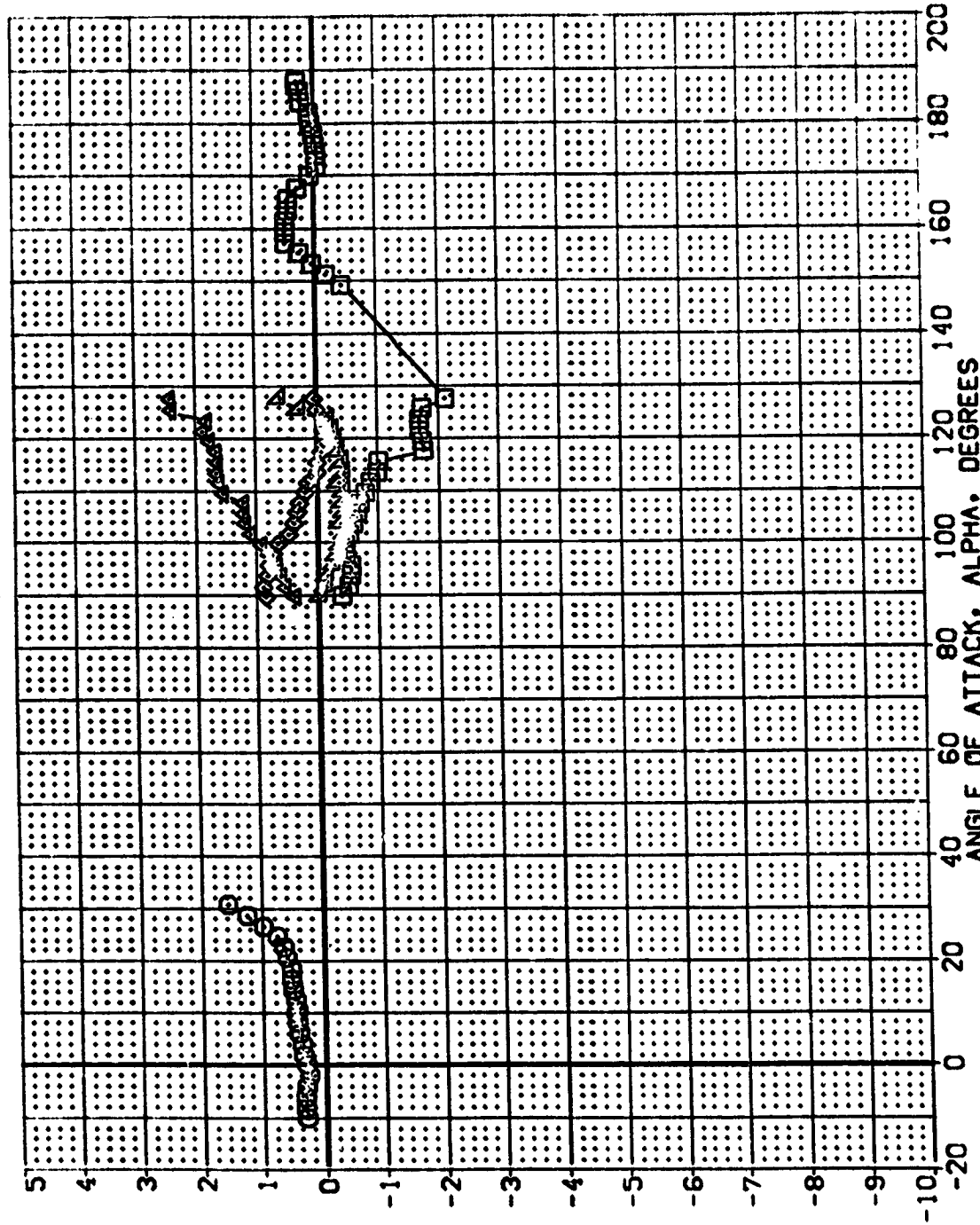
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.000 .000  
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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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[RBTAC5] MS-C 587[FA4] TITAN III C SRM (NBETP)

MISSILE AXIS YAWING MOMENT COEFFICIENT, CYNM



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

CAJMAC H = .59

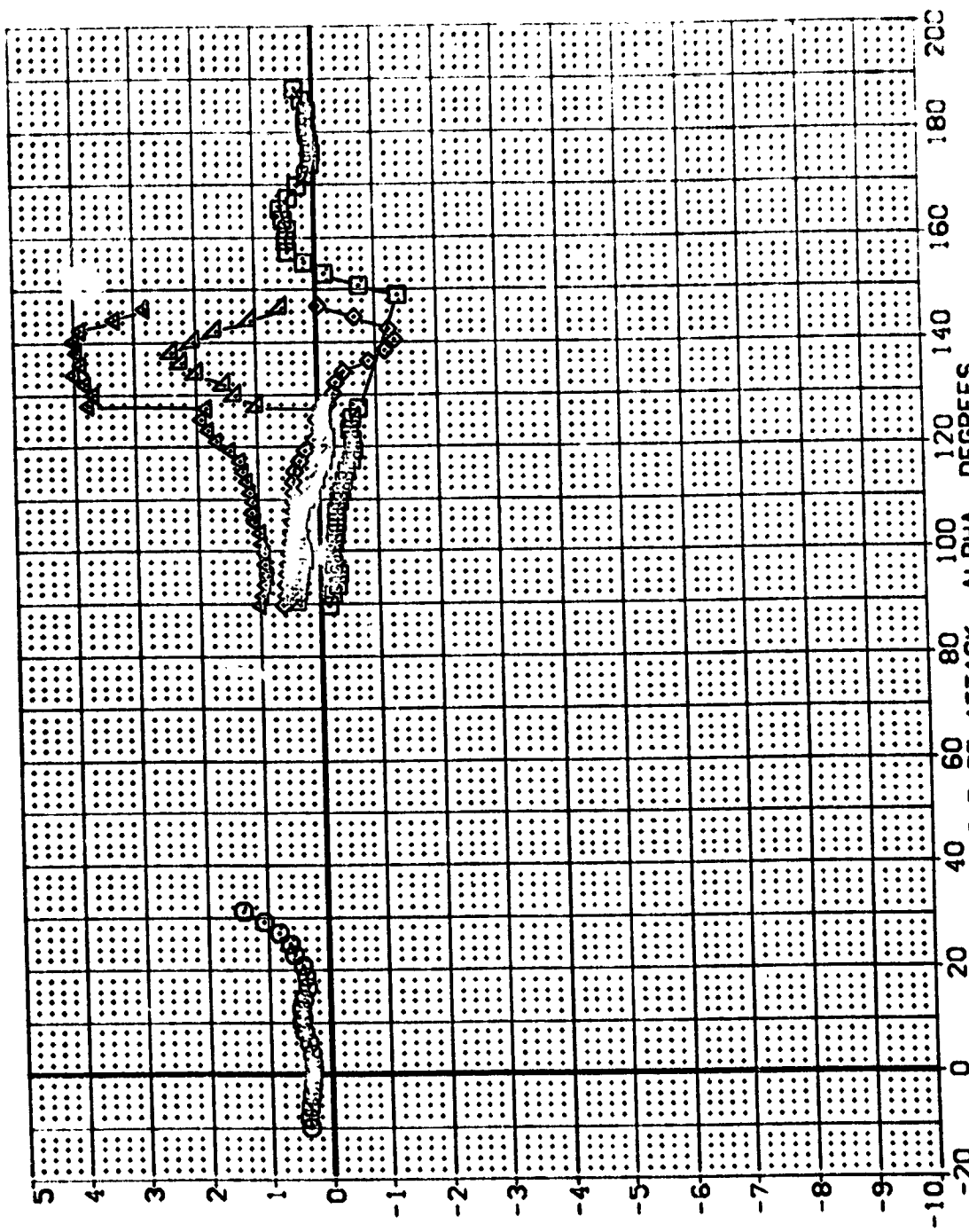
PAGE 103

# MISSILE AXIS YAWING MOMENT COEFFICIENT, C<sub>YN</sub>

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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 MS C 587(F44) TITAN III C SRH (NBETP)  
 MS C 587(F44) TITAN III C SRH (NBETP)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MACH = .90



# REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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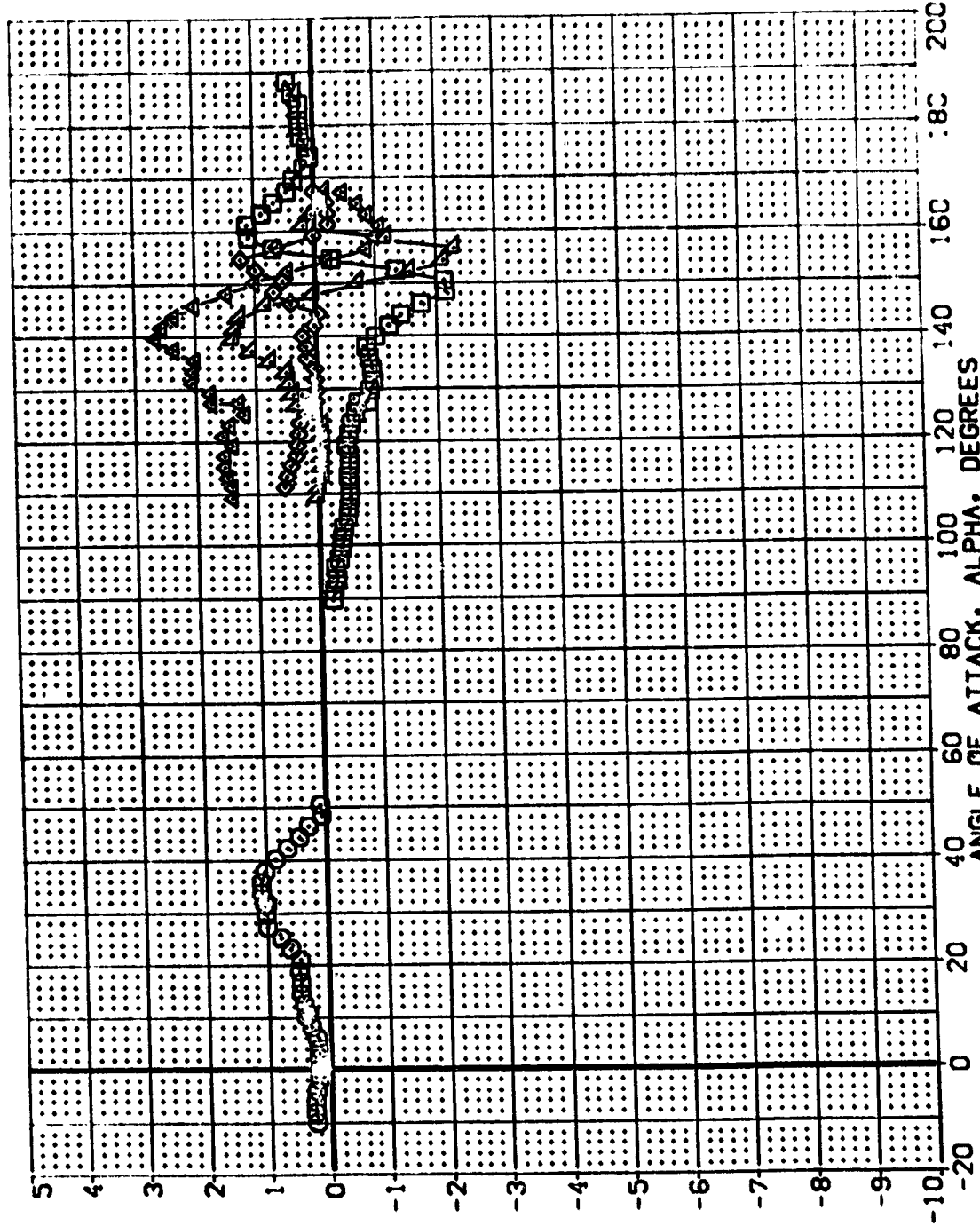
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DATA SET SY-50L CONFIGURATION DESCRIPTION

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MSFC	587(EA4)	TITAN	III	SRM	(NBEIP)
MSFC	587(EA4)	TITAN	III	SRM	(NBEIP)
MSFC	587(EA4)	TITAN	III	SRM	(NBEIP)
MSFC	587(EA4)	TITAN	III	SRM	(NBEIP)

MISSILE AXIS YAWING MOMENT COEFFICIENT, CYNM



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBEIP)

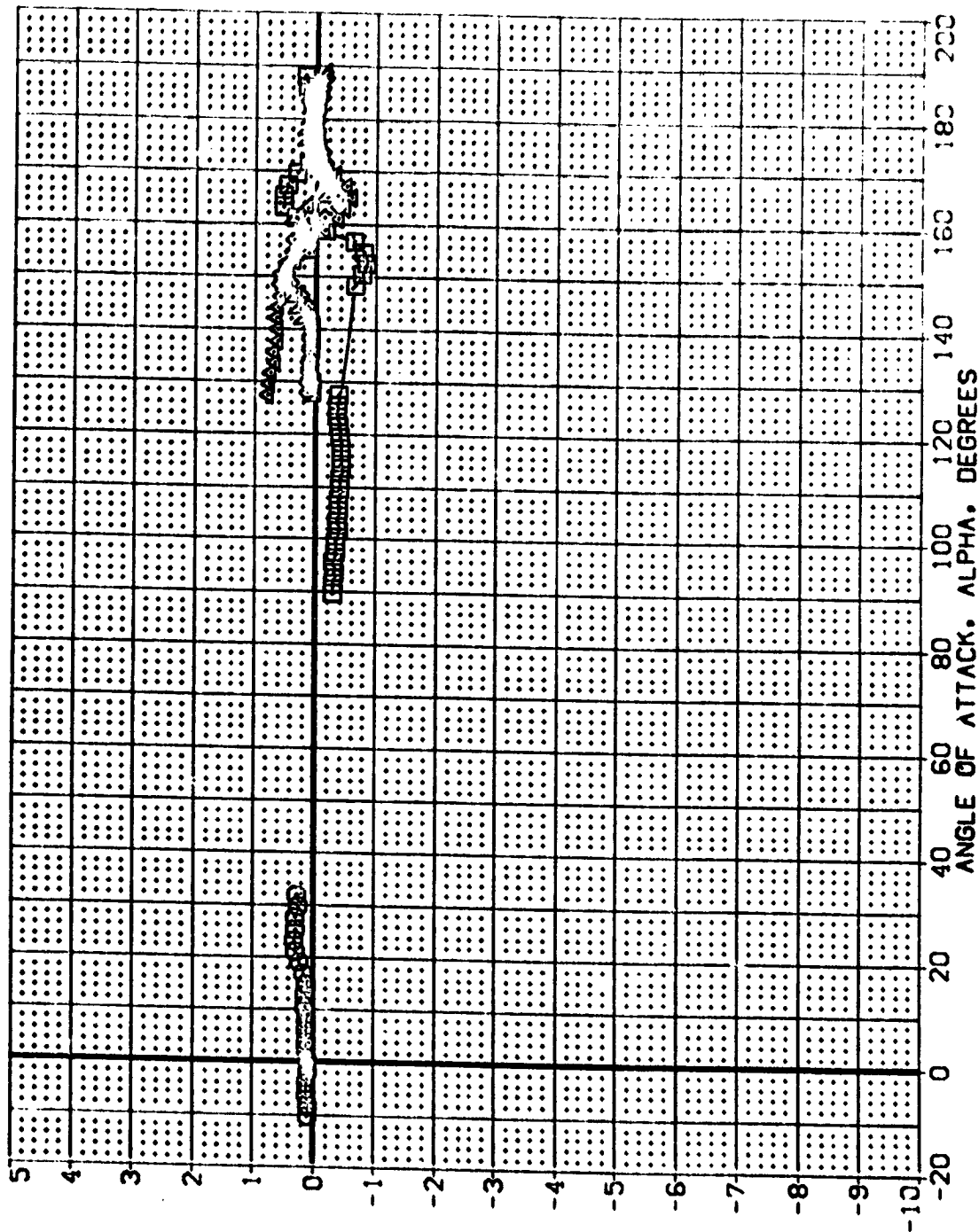
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 MSFC 587(FA4) TITAN III C SRM (NBETP)  
 MSFC 587(FA4) TITAN III C SRM (NBETP)  
 MSFC 587(FA4) TITAN III C SRM (NBETP)  
 MSFC 587(FA4) TITAN III C SRM (NBETP)

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LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

COMACH = 1.96

PAGE 106





REFERENCE INFORMATION

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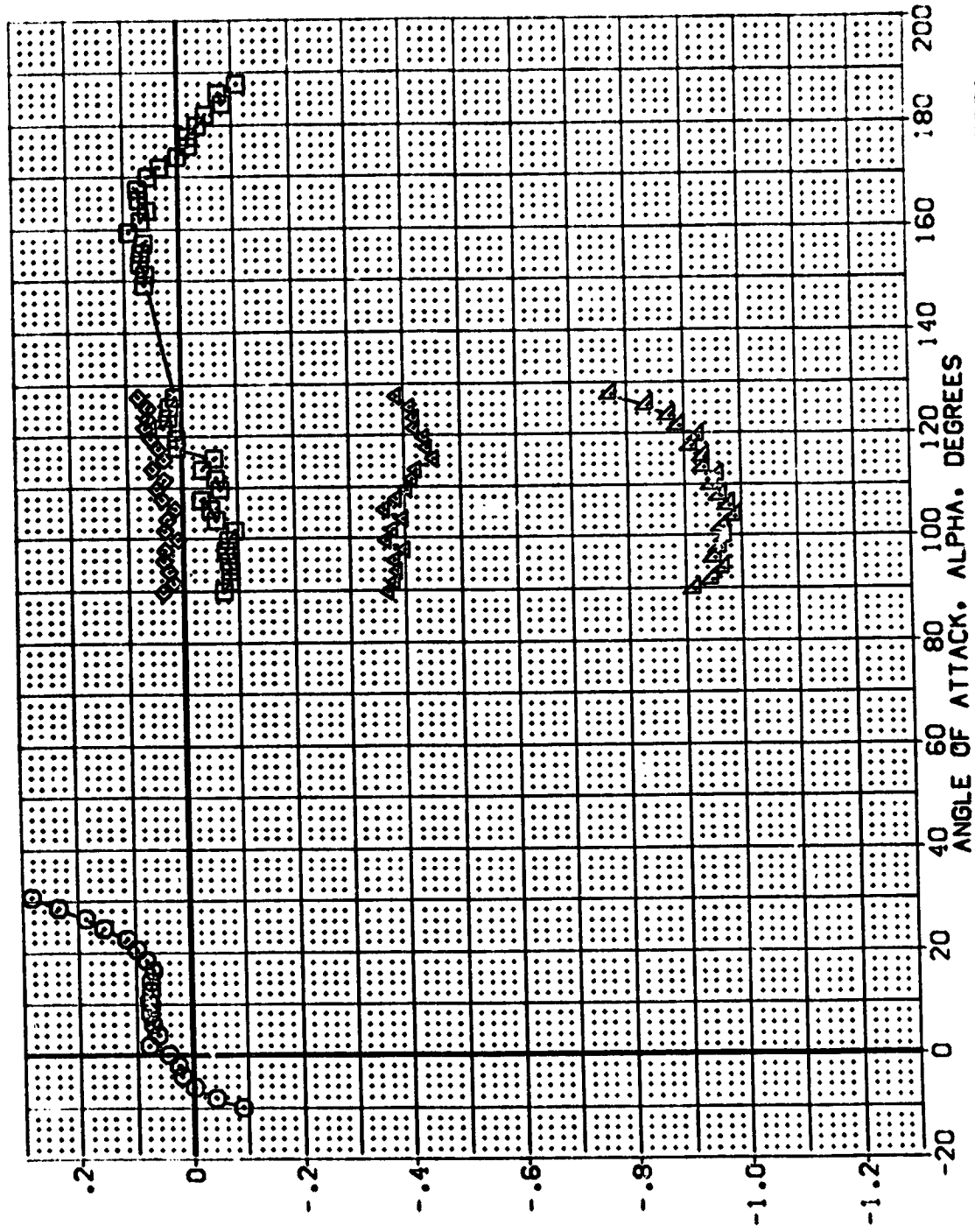
BETA PHI

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BETA	0.000	PHI	135.000

DATA SET S1500

CONFIGURATION	DESCRIPTION	SRM	(NBETP)
MS C 587 (FA4)	TITAN III	SRM	(NBETP)
MS C 587 (FA4)	TITAN III	SRM	(NBETP)
MS C 587 (FA4)	TITAN III	SRM	(NBETP)
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MS C 587 (FA4)	TITAN III	SRM	(NBETP)
MS C 587 (FA4)	TITAN III	SRM	(NBETP)

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(A)MACH = .59

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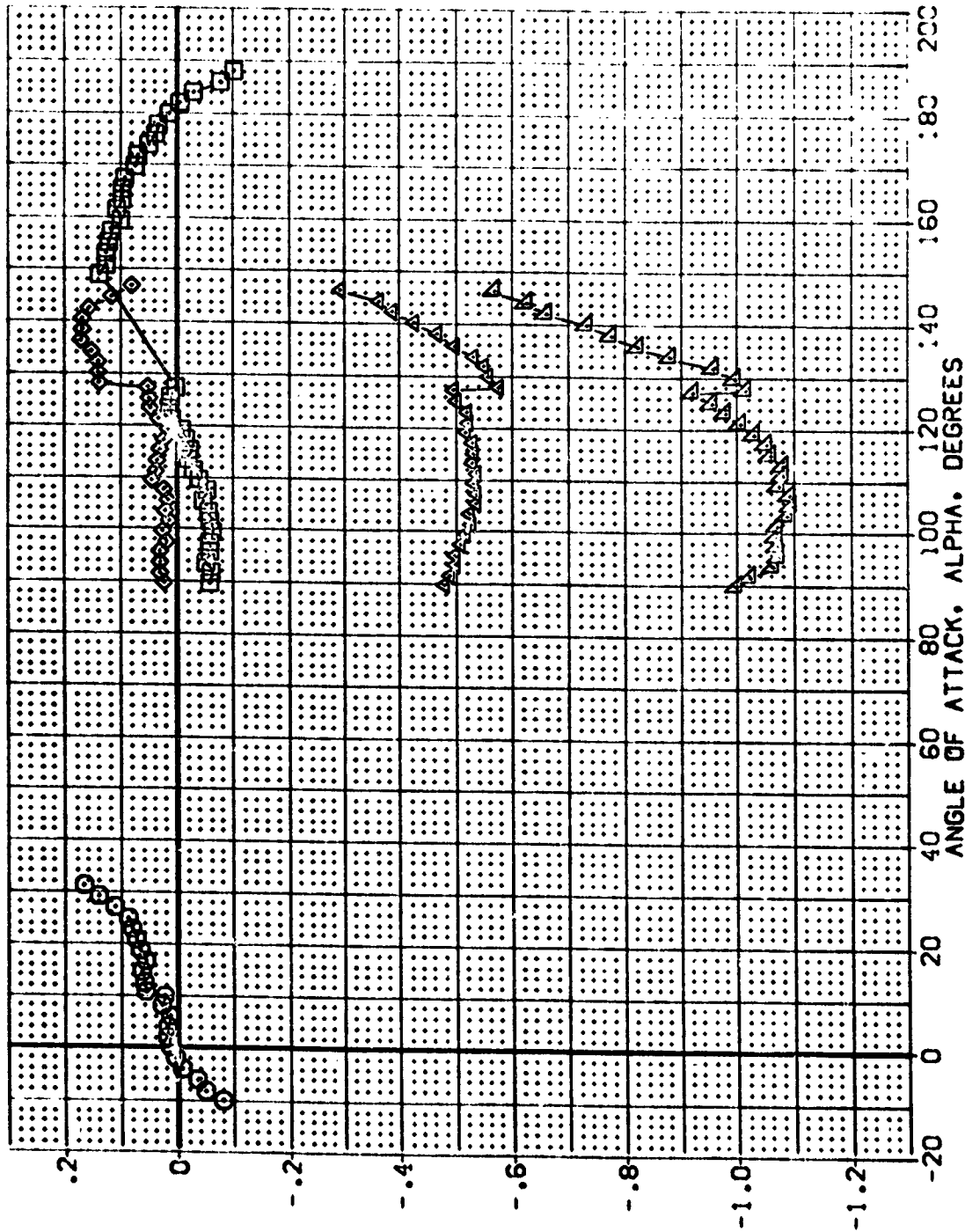
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ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MACH = .90

PAGE 110



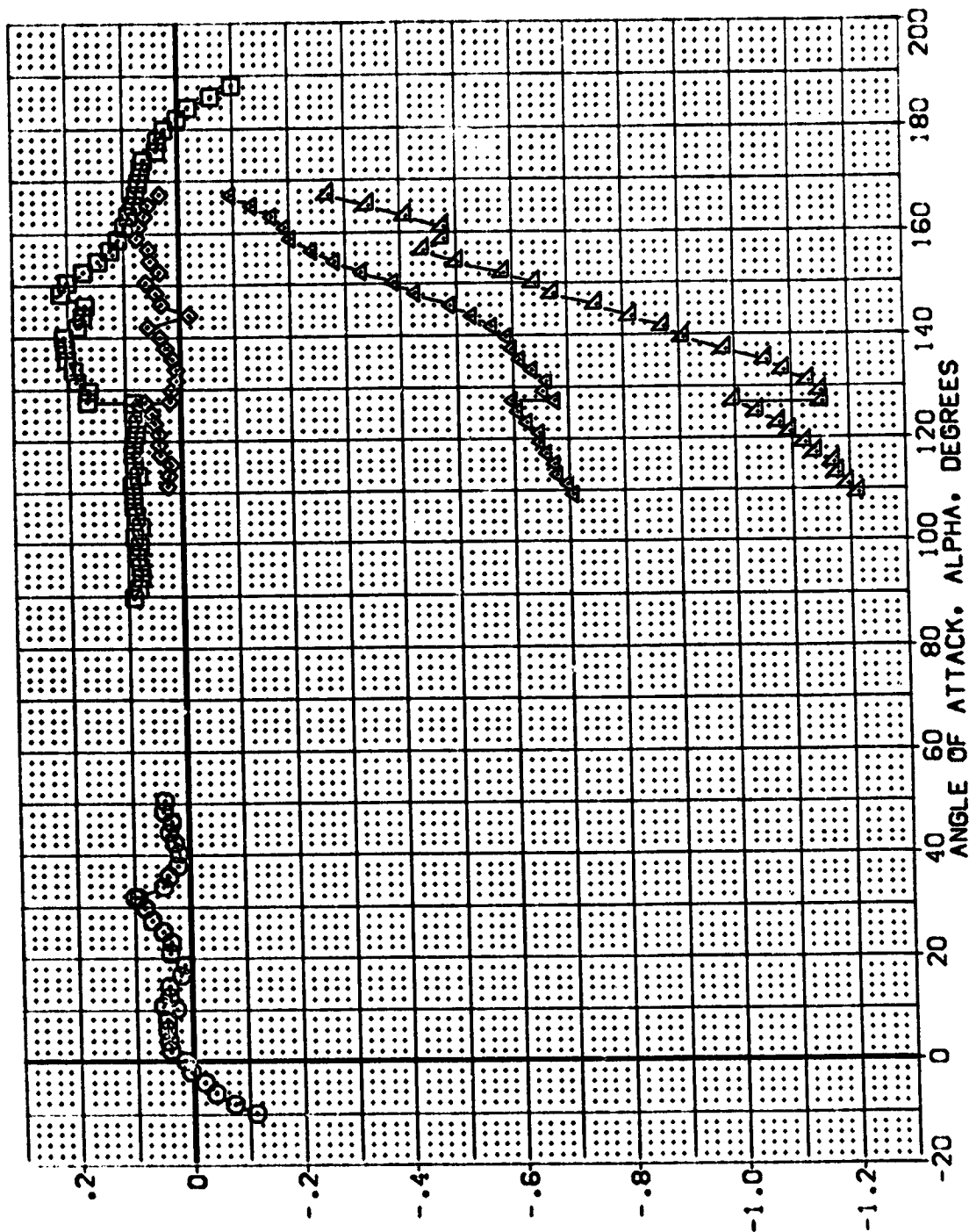


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YMRP .0000  
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.000 135.000

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MS C 587 (FA4) TITAN C SRM (NBETP)



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(CJ)MACH = 1.20

PAGE 111

REFERENCE INFORMATION

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BREF	5000	IN
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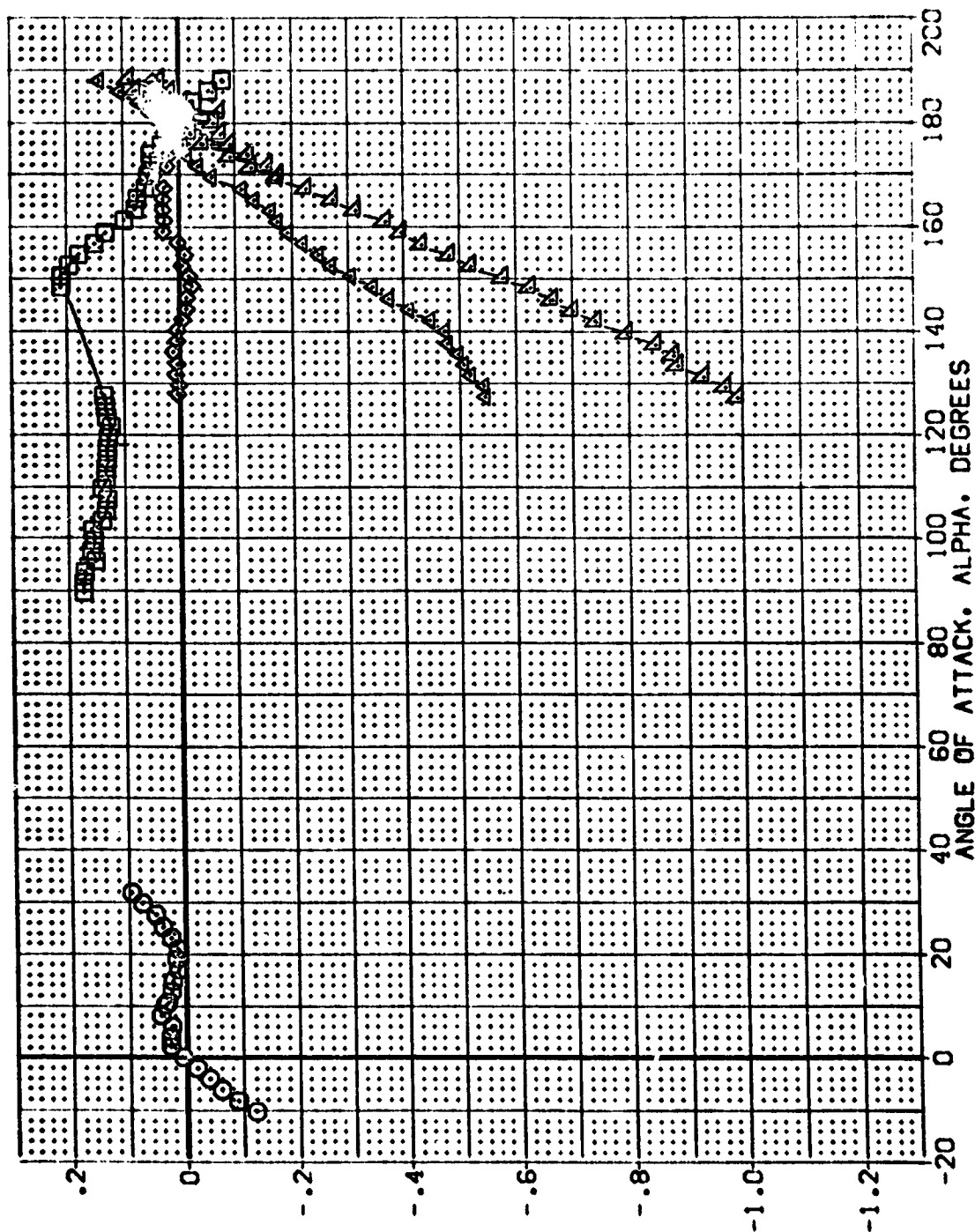
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MS C 587(FM) TITAN III	SRM (NBETP)
MS C 587(FM) TITAN III	SRM (NBETP)
MS C 587(FM) TITAN III	SRM (NBETP)

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

COMACH = 1.96

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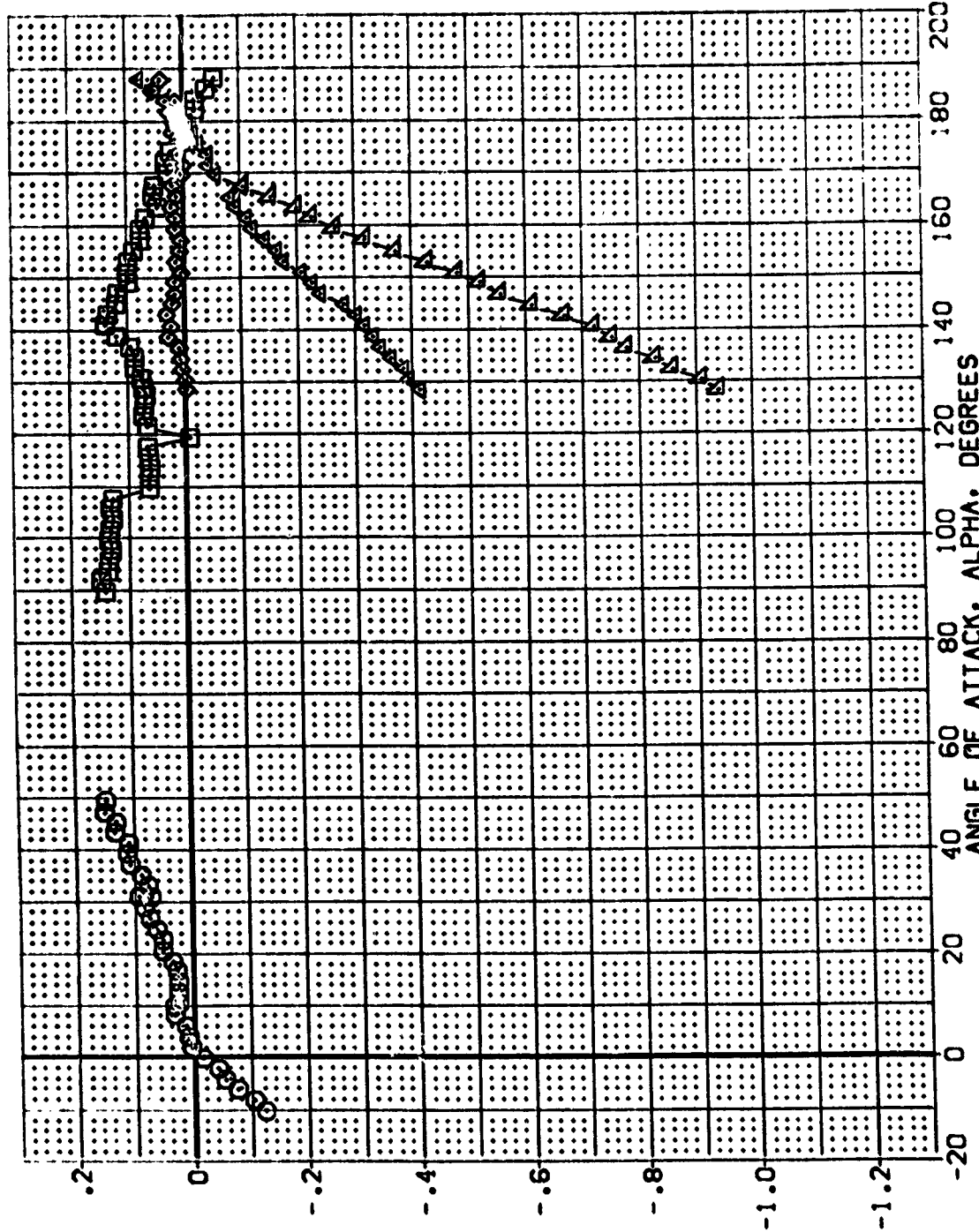
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SCALE .0074

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.000 180.000

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R7A04 C S87(F4) TITAN III C S87(NBETP)  
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ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

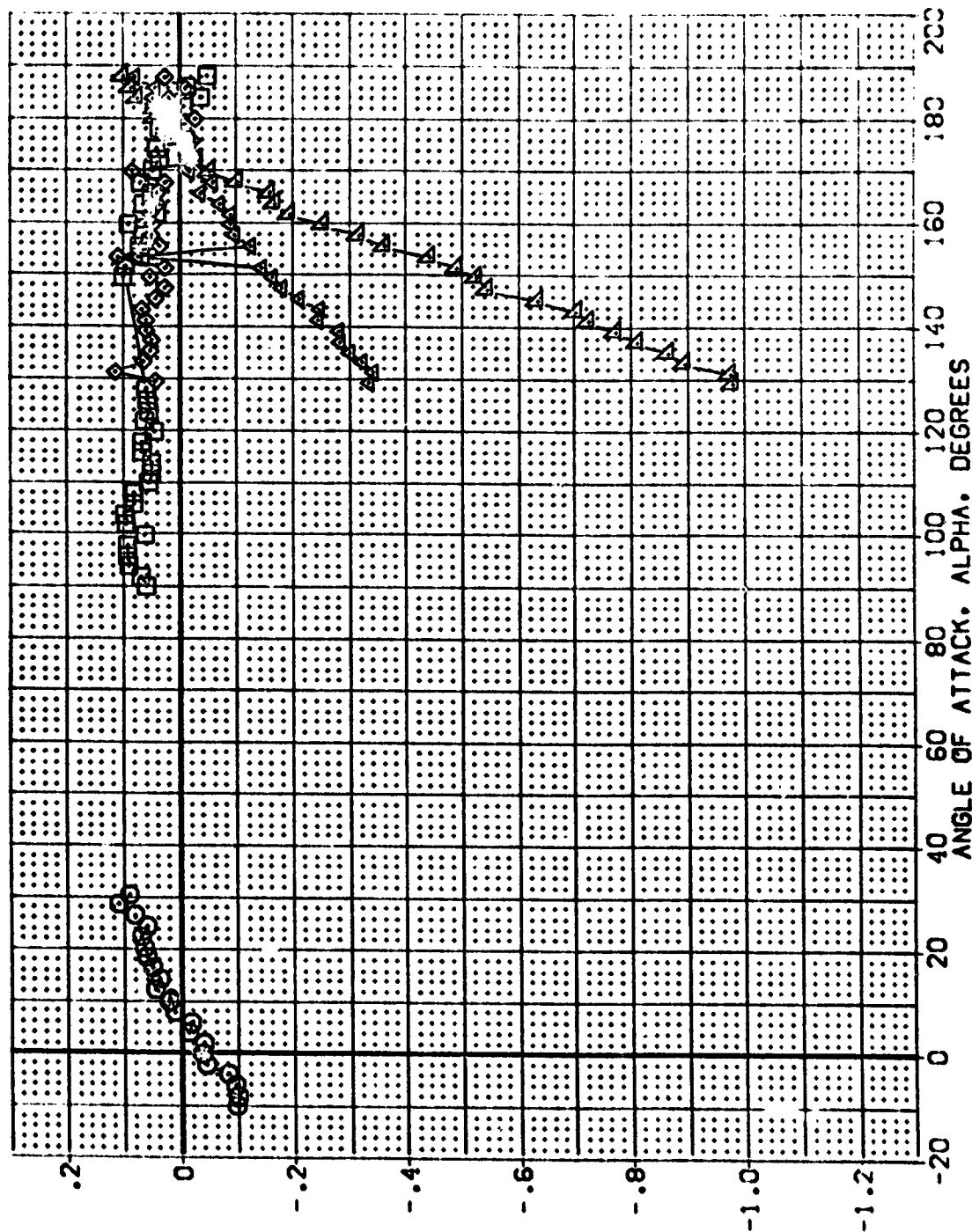


LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(E)MACH = 3.48

[illegible]

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ZMRP	.0000
SCALE	.0074



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

# LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

$$(F)_{MACH} = 4.96$$

PAGE 11



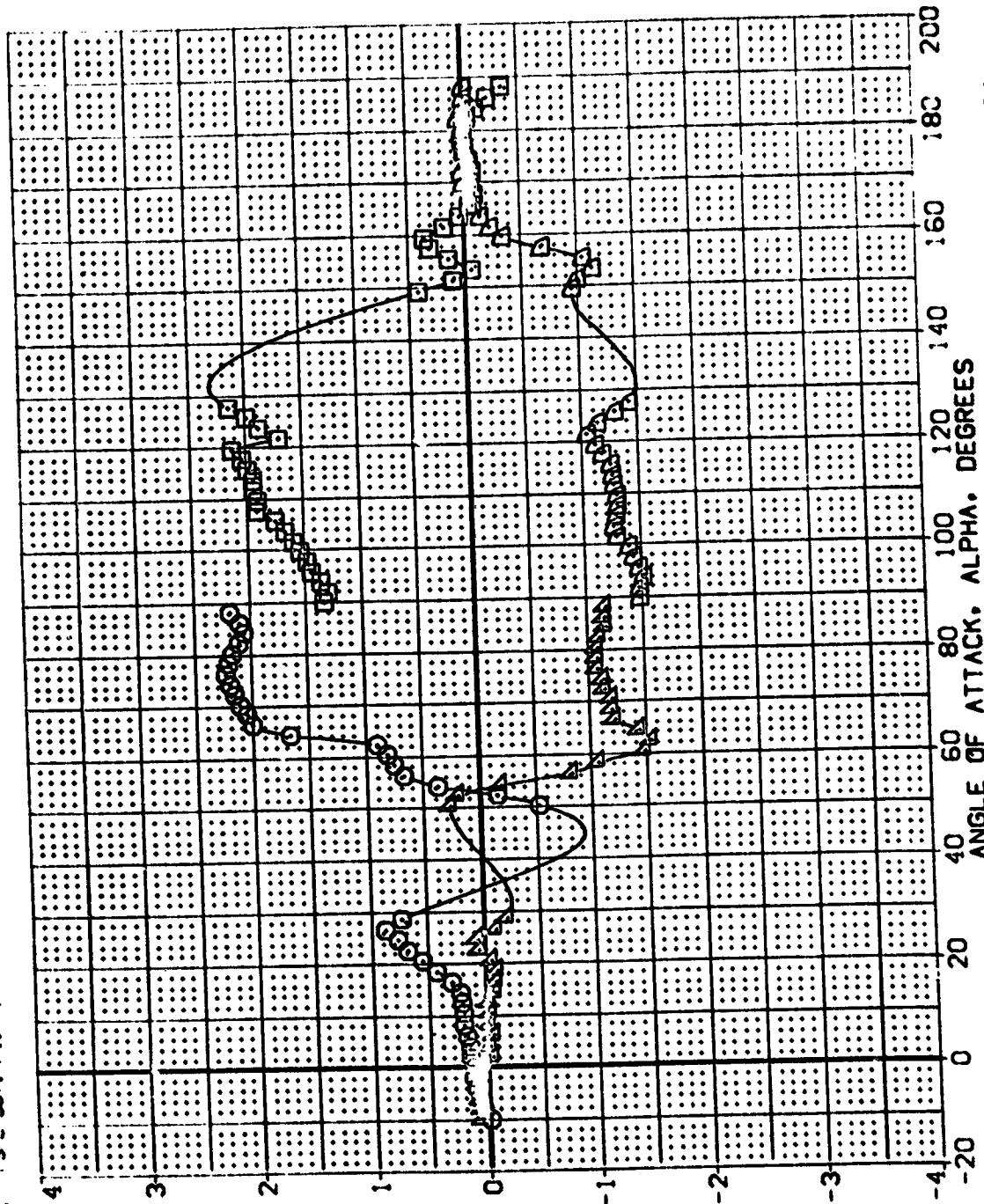
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15 C 587(F44) TITAN III C SRW (NBETP)  
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MISSILE AXIS SIDE FORCE COEFFICIENT, C<sub>YM</sub>



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(A)MACH = .59

PAGE 115

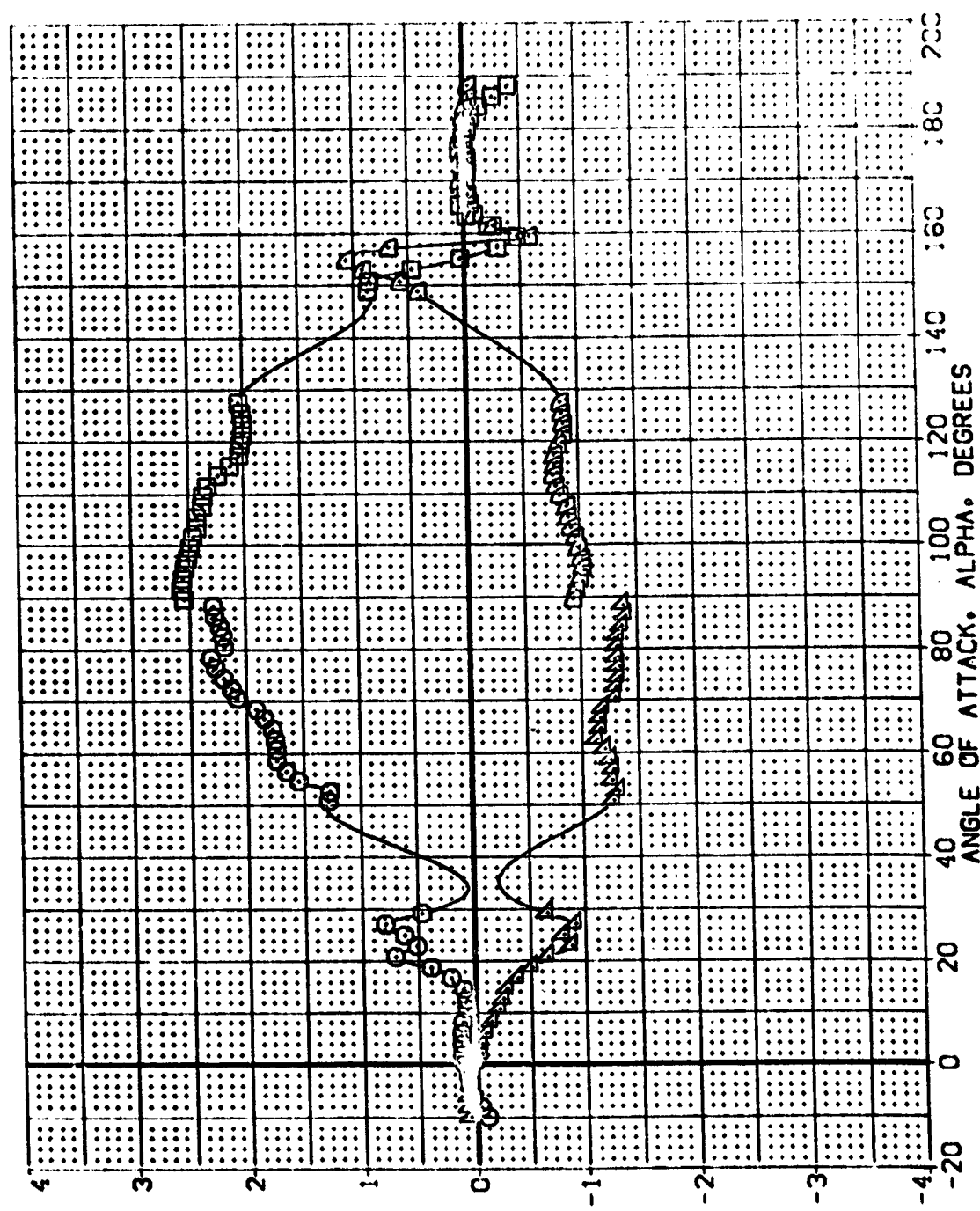


MISSILE AXIS SIDE FORCE COEFFICIENT, CYM

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R57A.8.1 NSFC 587(FA4) TITAN III C SRM (NBETP)  
R57A.5.1 DATA NOT AVAILABLE  
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R57A.3.1 NSFC 587(FA4) TITAN III C SRM (NBETP)  
R57A.4.1 NSFC 587(FA4) TITAN III C SRM (NBETP)

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REFERENCE INFORMATION  
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ZMRP .000  
SCALE .0074



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MAC = .90

PAGE 115

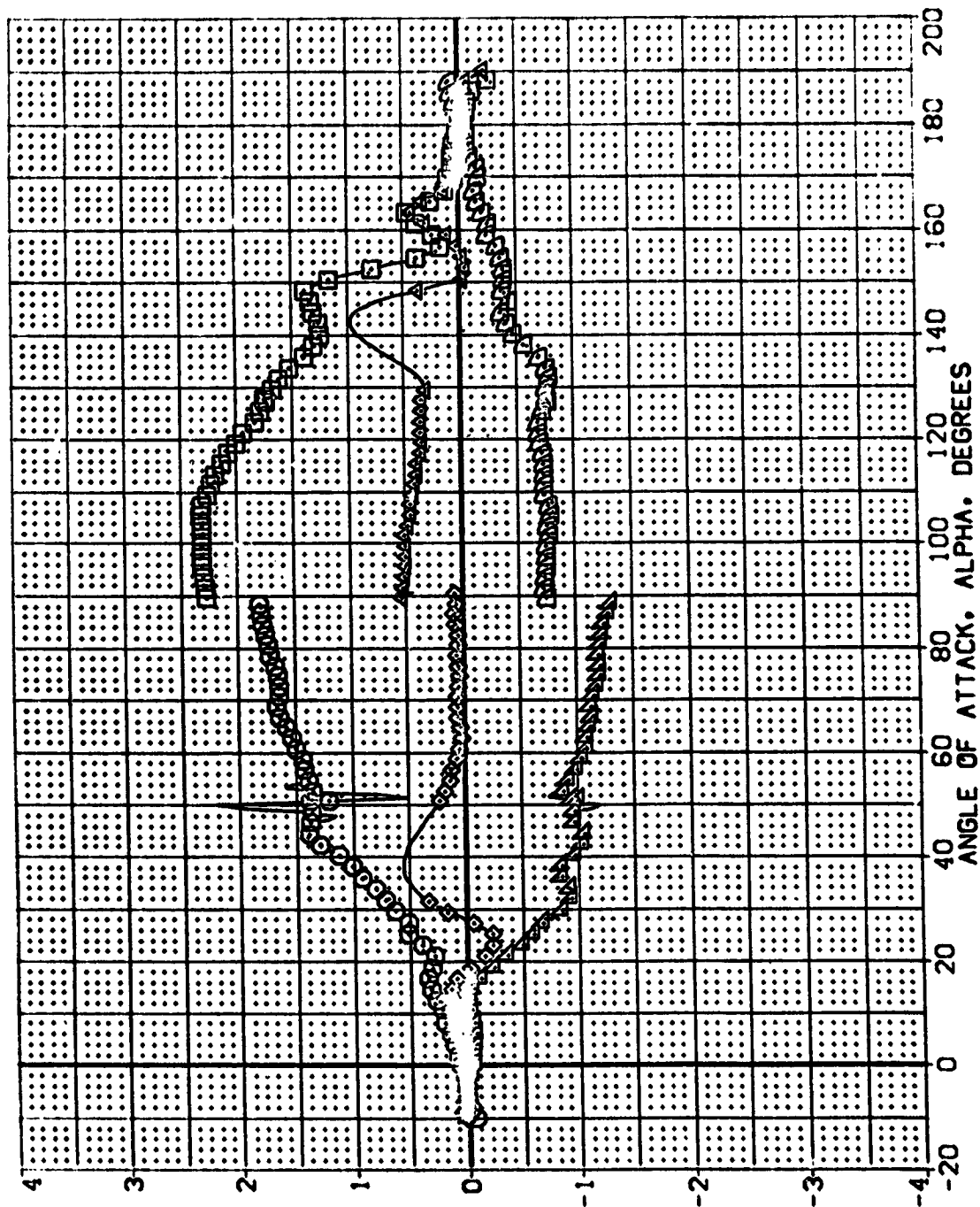
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R57A21] MS C 587(FA4) TITAN III C SRM (NBETP)  
R57A22] MS C 587(FA4) TITAN III C SRM (NBETP)

MISSILE AXIS SIDE FORCE COEFFICIENT, C<sub>YM</sub>



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(C)MACH = 1.19

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REF A: 12] MSFC 587(F4) TITAN III C 584 (NBETP)

REF A: 13] MSFC 587(F4) TITAN III C 584 (NBETP)

REF A: 14] MSFC 587(F4) TITAN III C 584 (NBETP)

REFERENCE INFORMATION

SREF .6360 IN

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ZMRP .0000 IN

SCALE .0074

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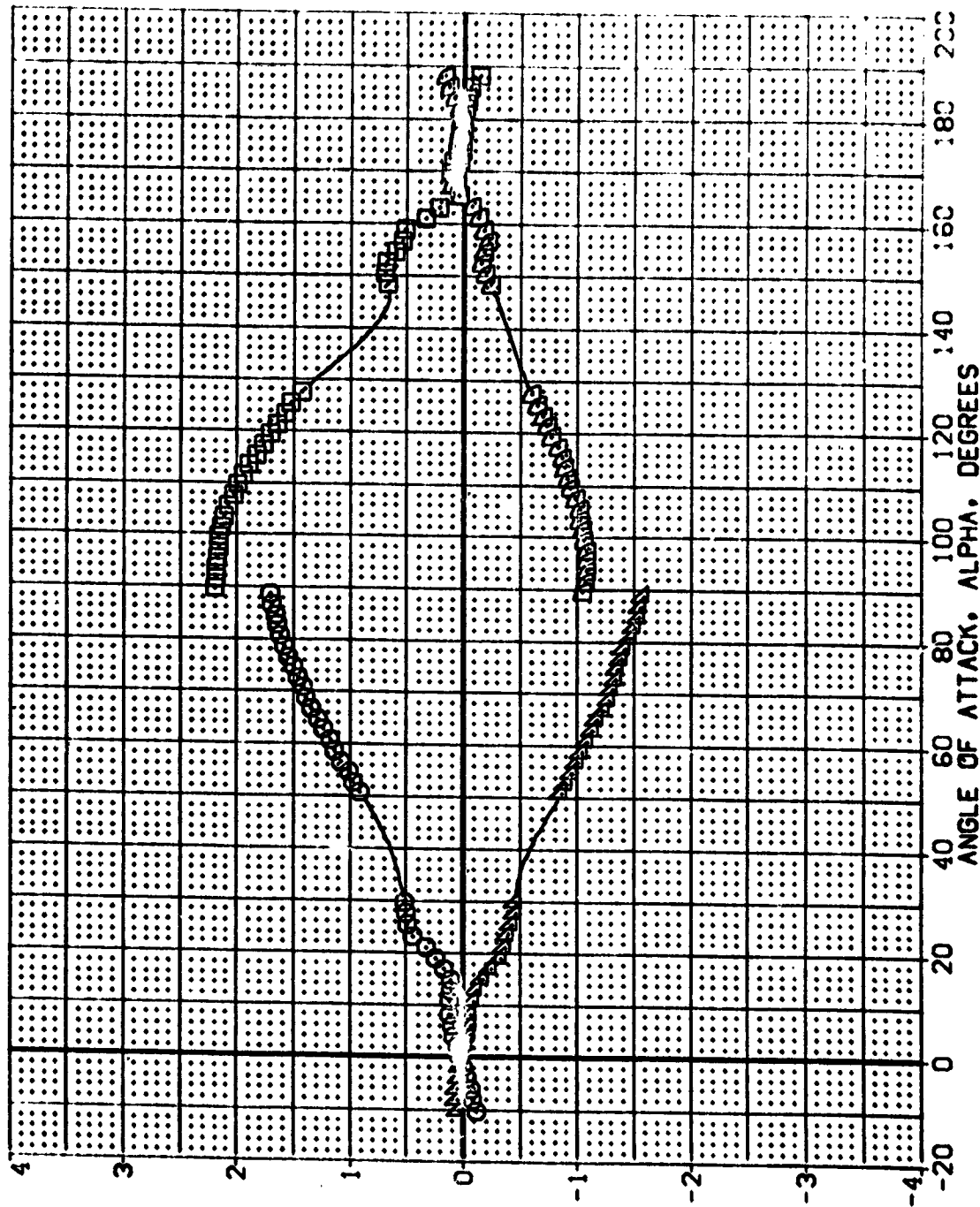
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MISSILE AXIS SIDE FORCE COEFFICIENT, C<sub>YM</sub>



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(O)MACH = 1.96

PAGE 1:8





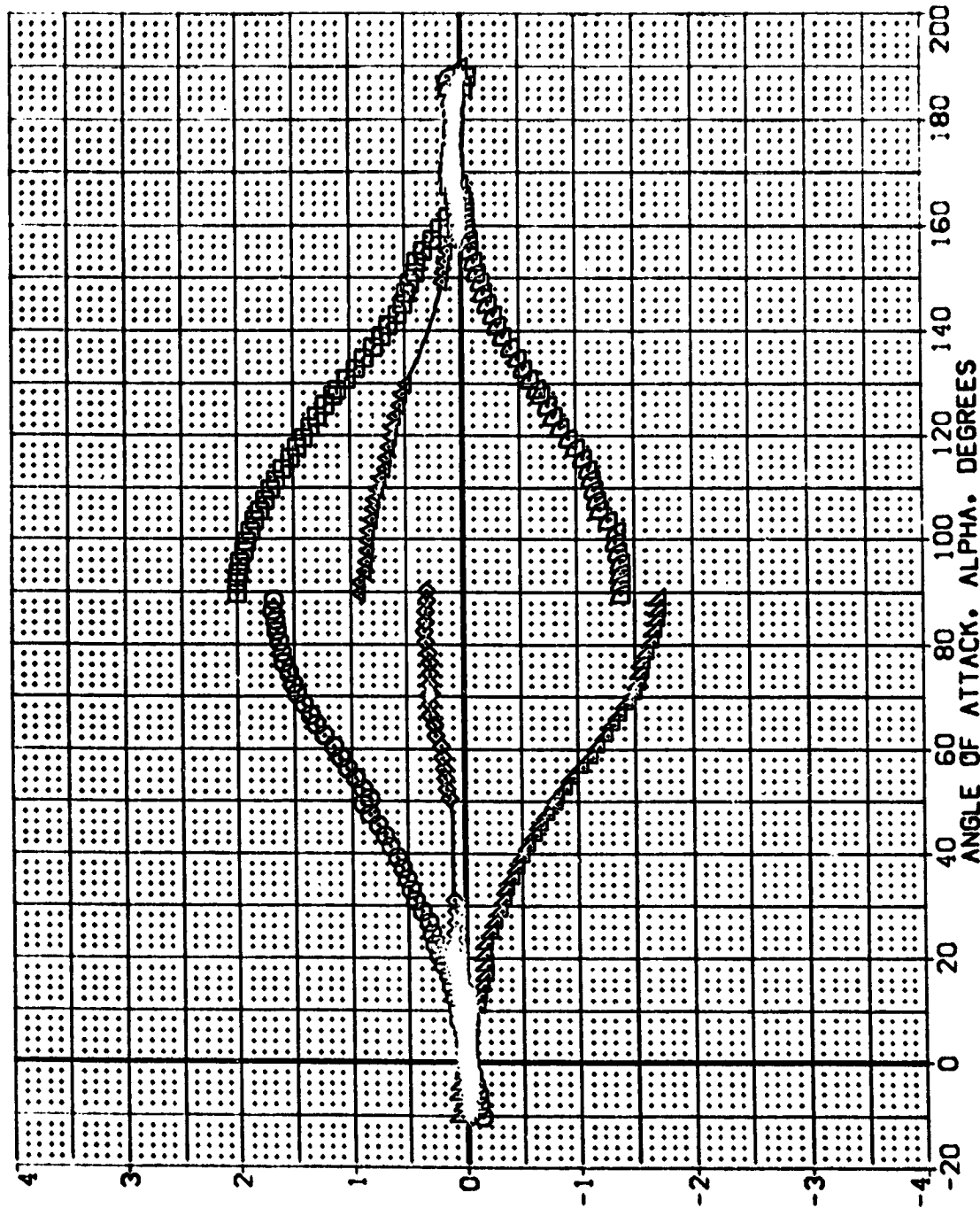
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RSTA 4) MS C 587(FA4) TITAN III C SM (NBETP)

MISSILE AXIS SIDE FORCE COEFFICIENT, CYN



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(C)MACH = 3.48

PAGE: 9

DATA SET SYMBOL. CONFIGURATION DESCRIPTION

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[R57A]18] MSFC 587[FA4] TITAN III C SRM [NBETP]

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[R57A]14] MSFC 587[FA4] TITAN III C SRM [NBETP]

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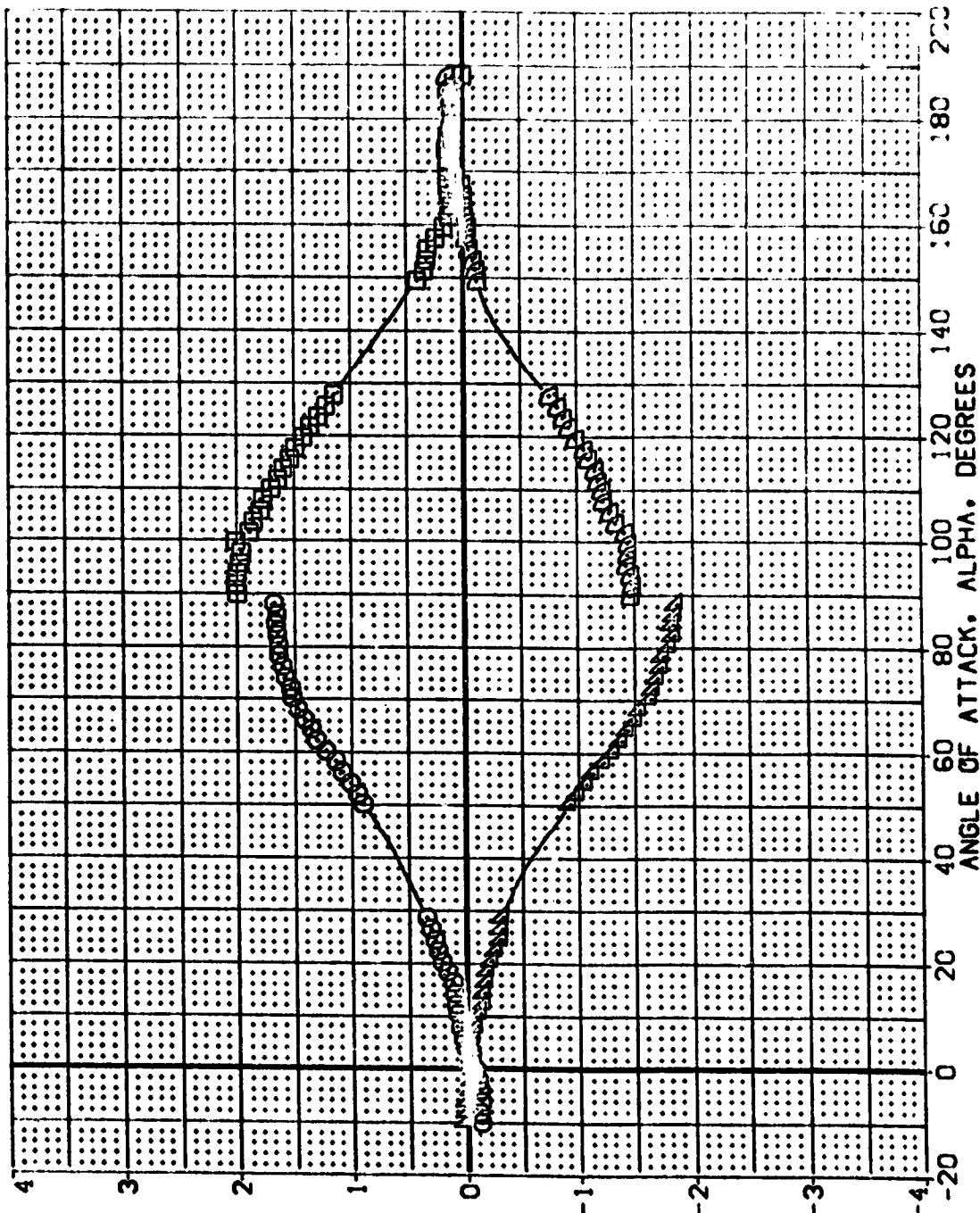
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YMRP 0.0000 IN

ZMRP 0.0000 IN

SCALE 0.074



MISSILE AXIS SIDE FORCE COEFFICIENT, CYM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(F)MACH = 4.96

PAGE 120

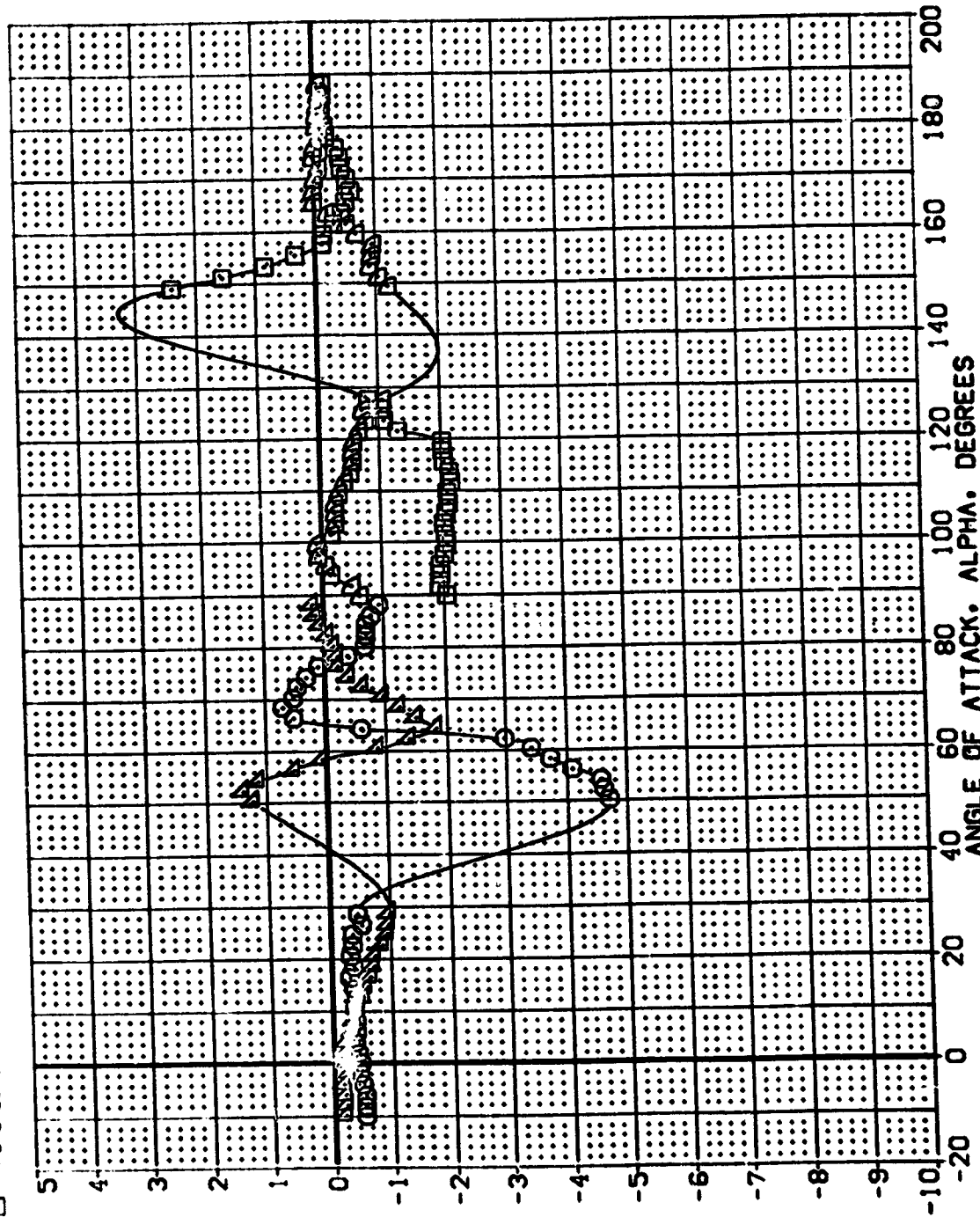


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PSC 587(FA4) TITAN III C SRM (NBETP)



MISSILE AXIS YAWING MOMENT COEFFICIENT, CYM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

PAGE 171

(A)MACH = .59

DATA SET SYMBOL CONFIGURATION DESCRIPTION

MSFC 587(F44) TITAN III C SRM (NBETP)

MSFC 587(F44) TITAN III C SRM (NBETP)

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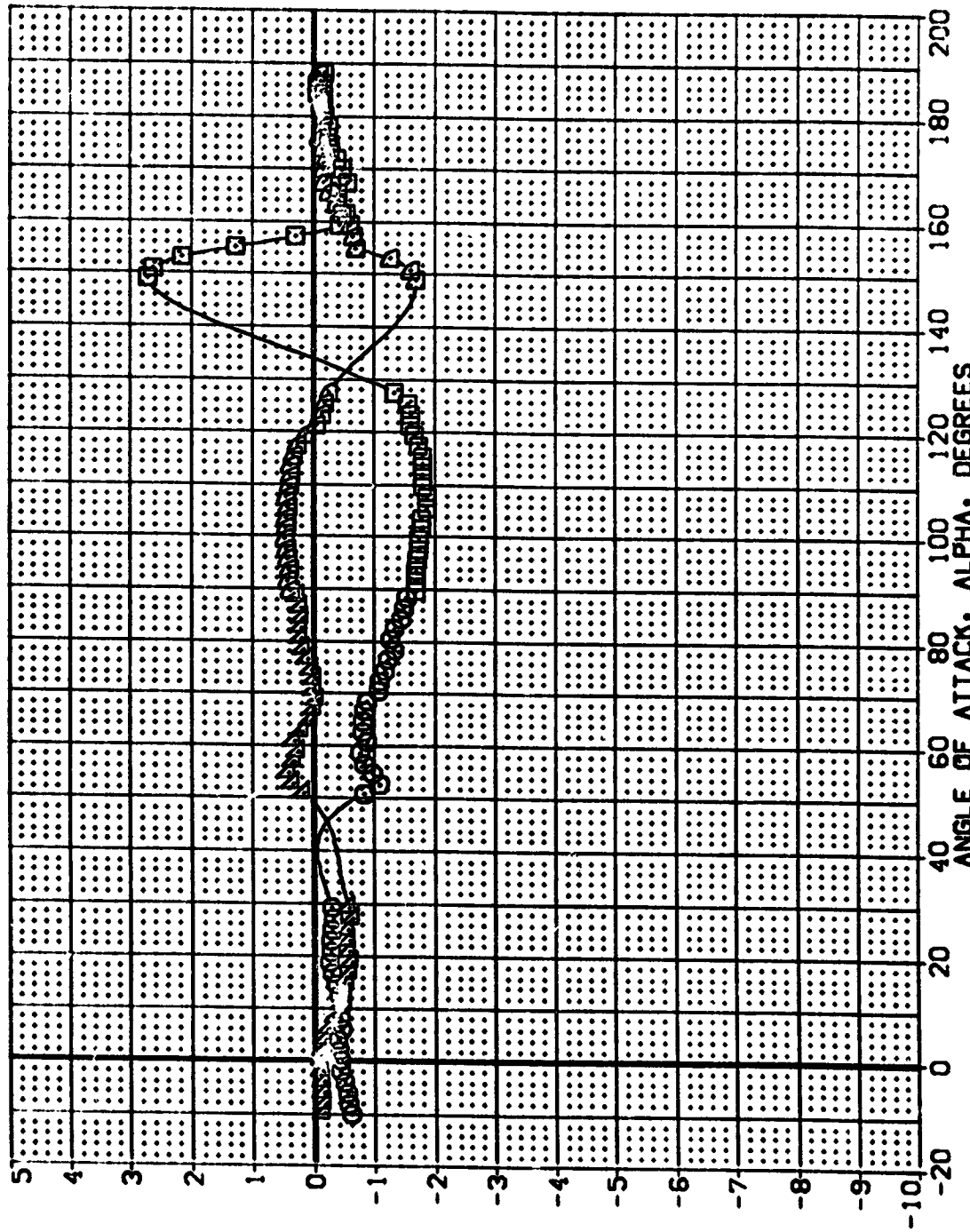
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SCALE .0074



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MACH = .50

PAGE 122

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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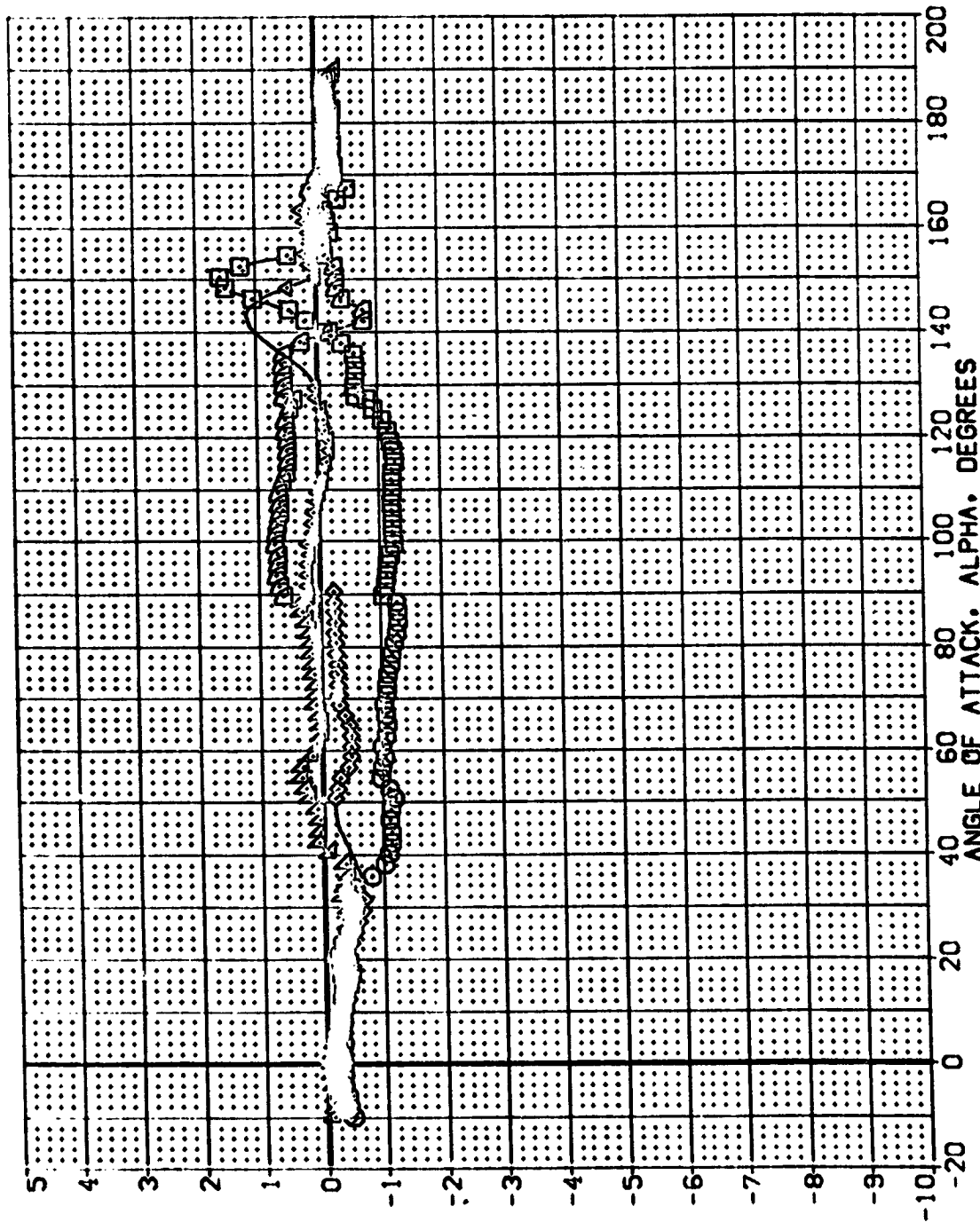
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BETA PHI

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.000	225.000

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507A 9	507C 587(EA4)	TITAN	SRM (NBETP)
507A 10	507C 587(EA4)	TITAN	SRM (NBETP)
507A 11	507C 587(EA4)	TITAN	SRM (NBETP)
507A 12	507C 587(EA4)	TITAN	SRM (NBETP)
507A 13	507C 587(EA4)	TITAN	SRM (NBETP)
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LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

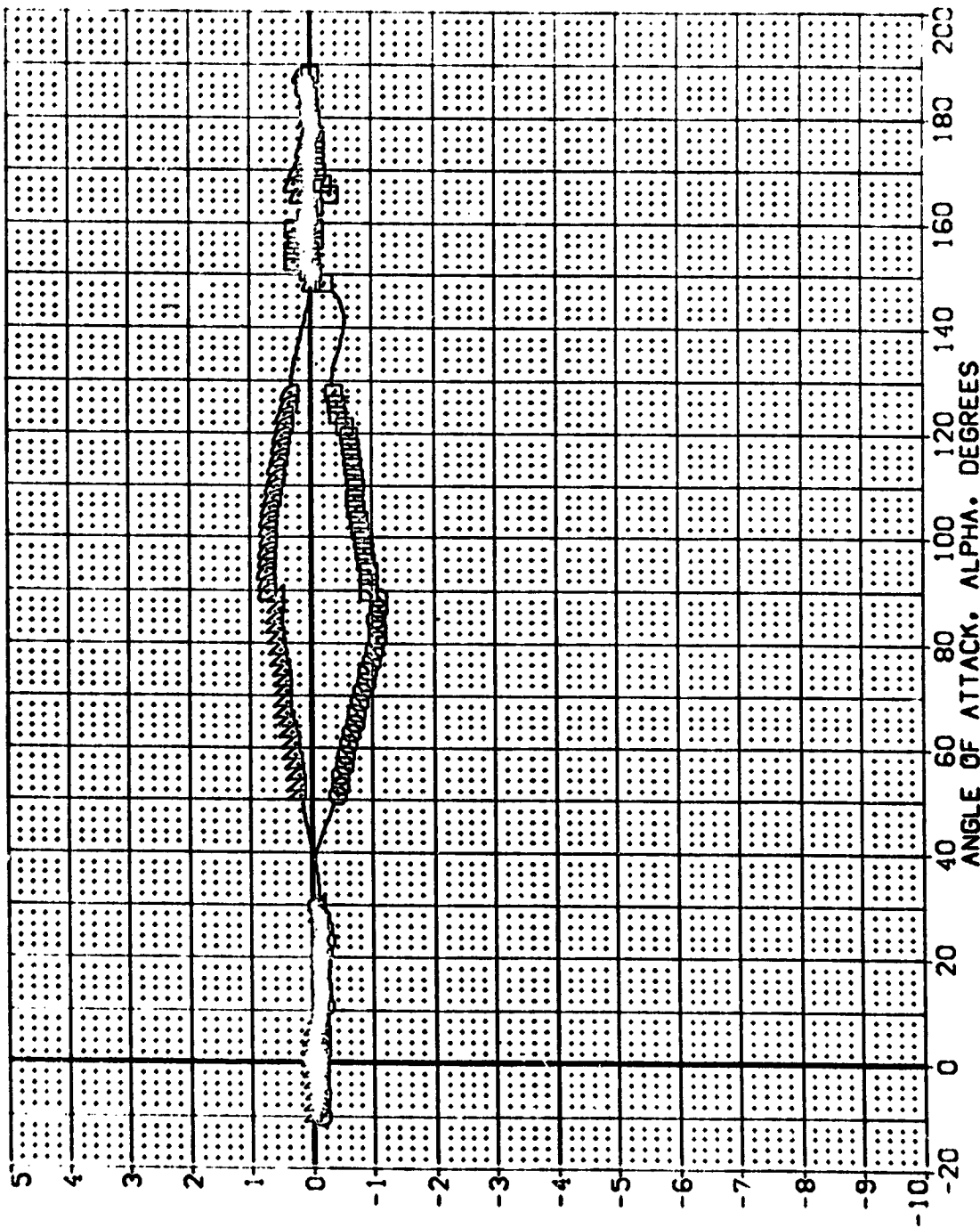
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 357A:21  
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 TITAN III C SRM (NBETP)  
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 TITAN III C SRM (NBETP)  
 TITAN III C SRM (NBETP)

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LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

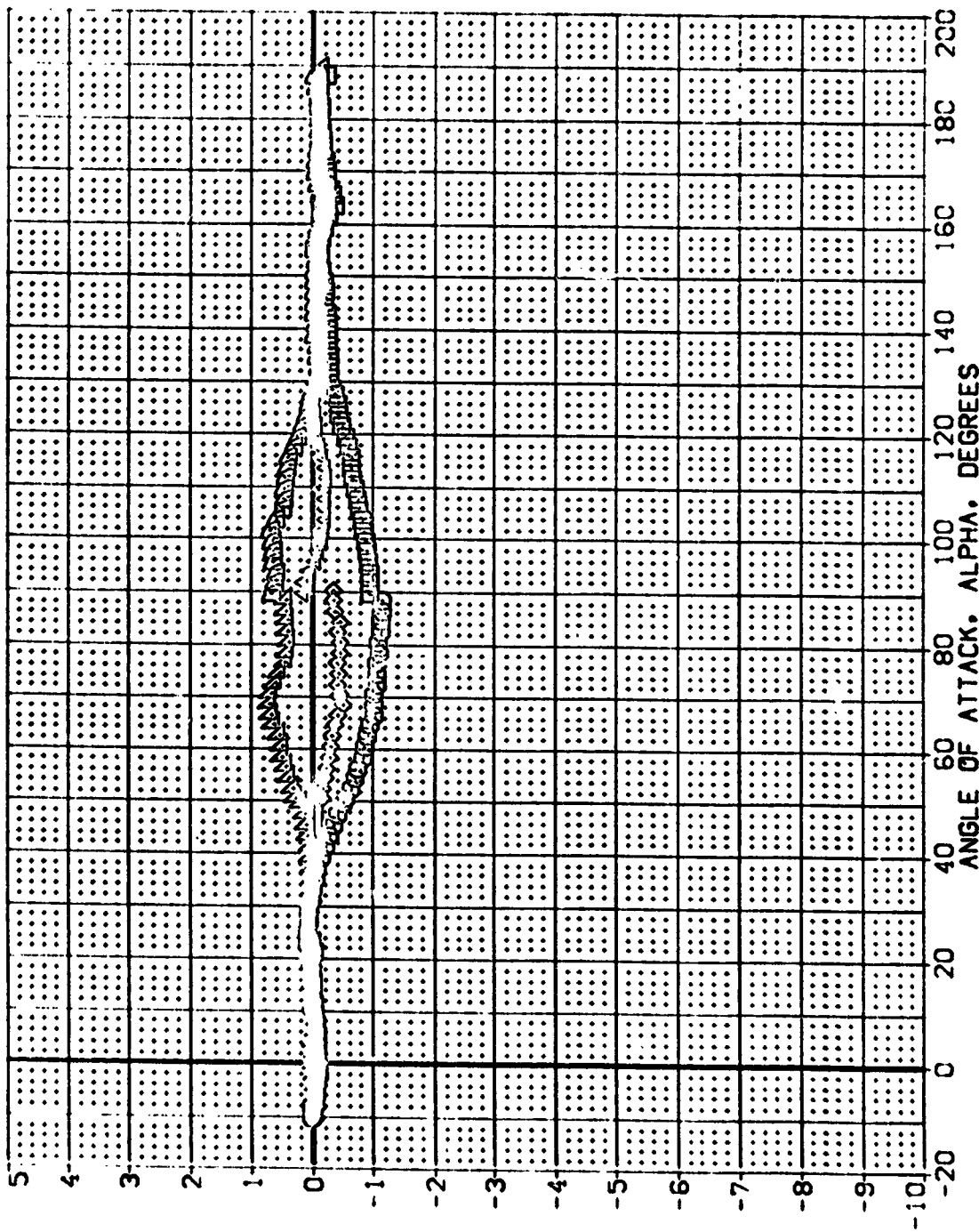
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PAGE : 24

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YMRP	.0000
ZMRP	.0000
SC/LE	.0074

BETA	PHI
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.000	202.500
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[illegible]MISSILE AXIS YAWING MOMENT COEFFICIENT, C<sub>YM</sub>

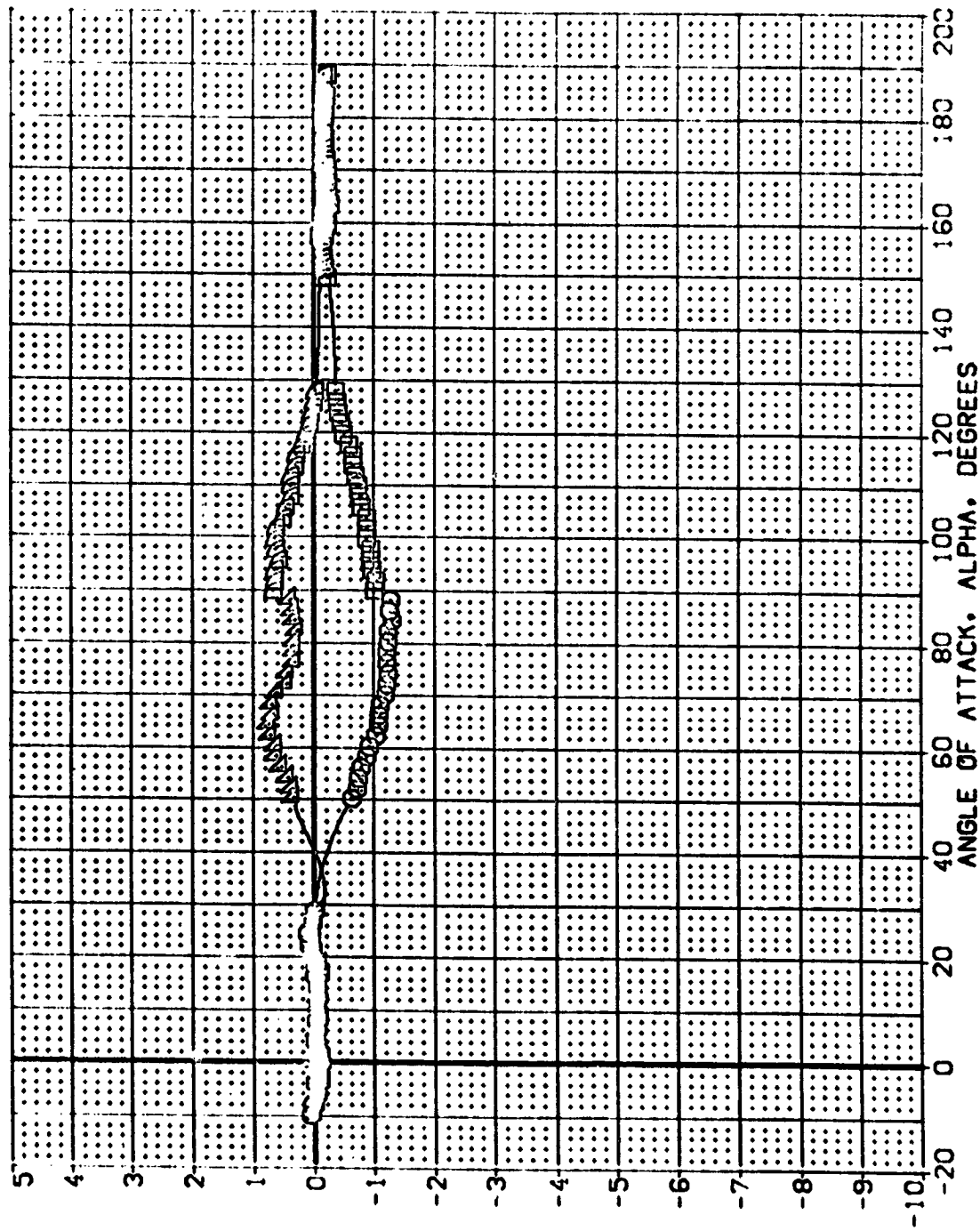
# LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

$$[E]_{VACH} = 3.48$$

PAGE 125

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LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

C<sub>F</sub>MAC<sub>H</sub> = 4.96

PAGE 126

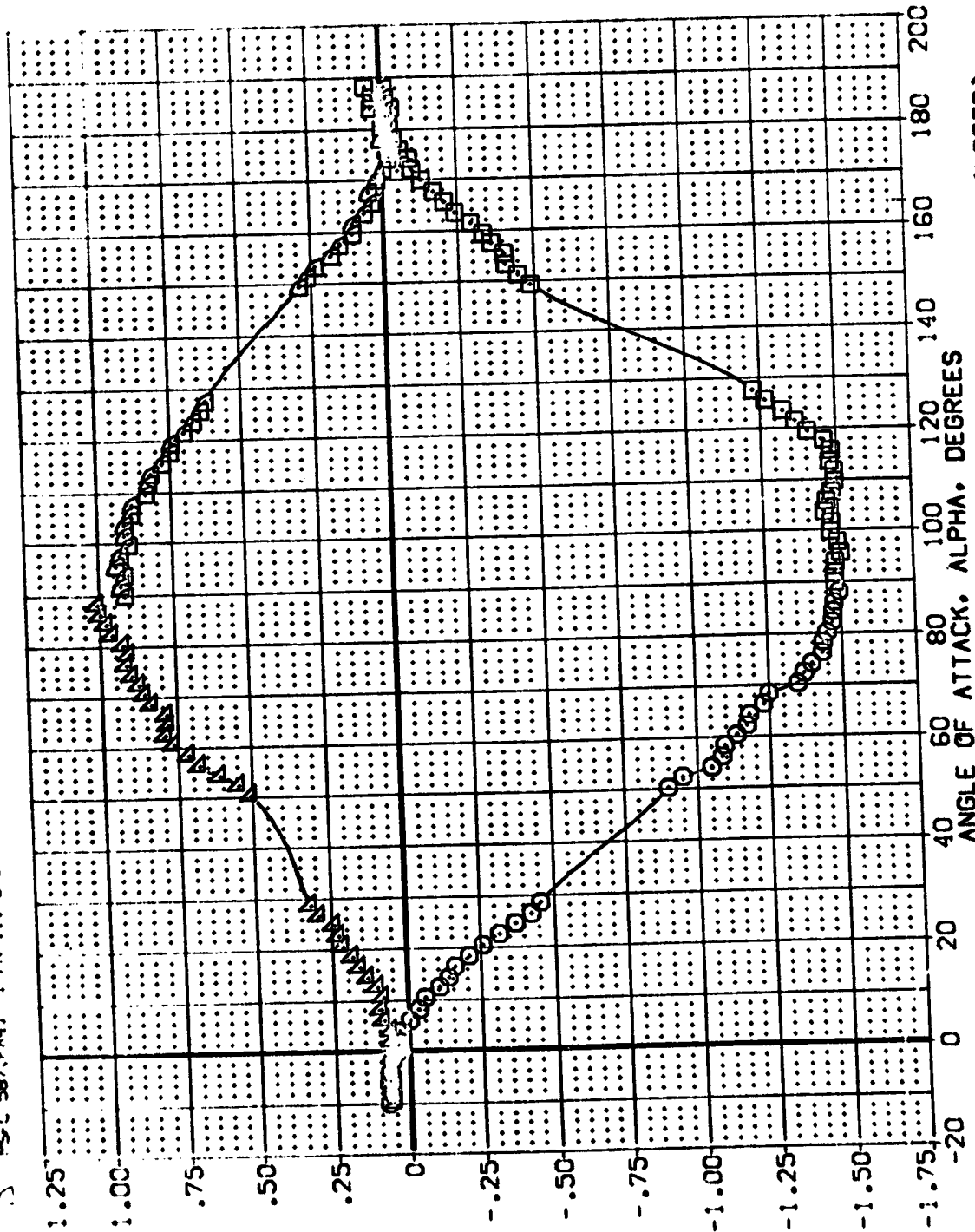


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S- C 587(FAS) TITAN III C SRM (NBETP)



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(A)MAC = .59

REFERENCE INFORMATION

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ZMRP	0.0000	IN	2.2
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BETA PH-I

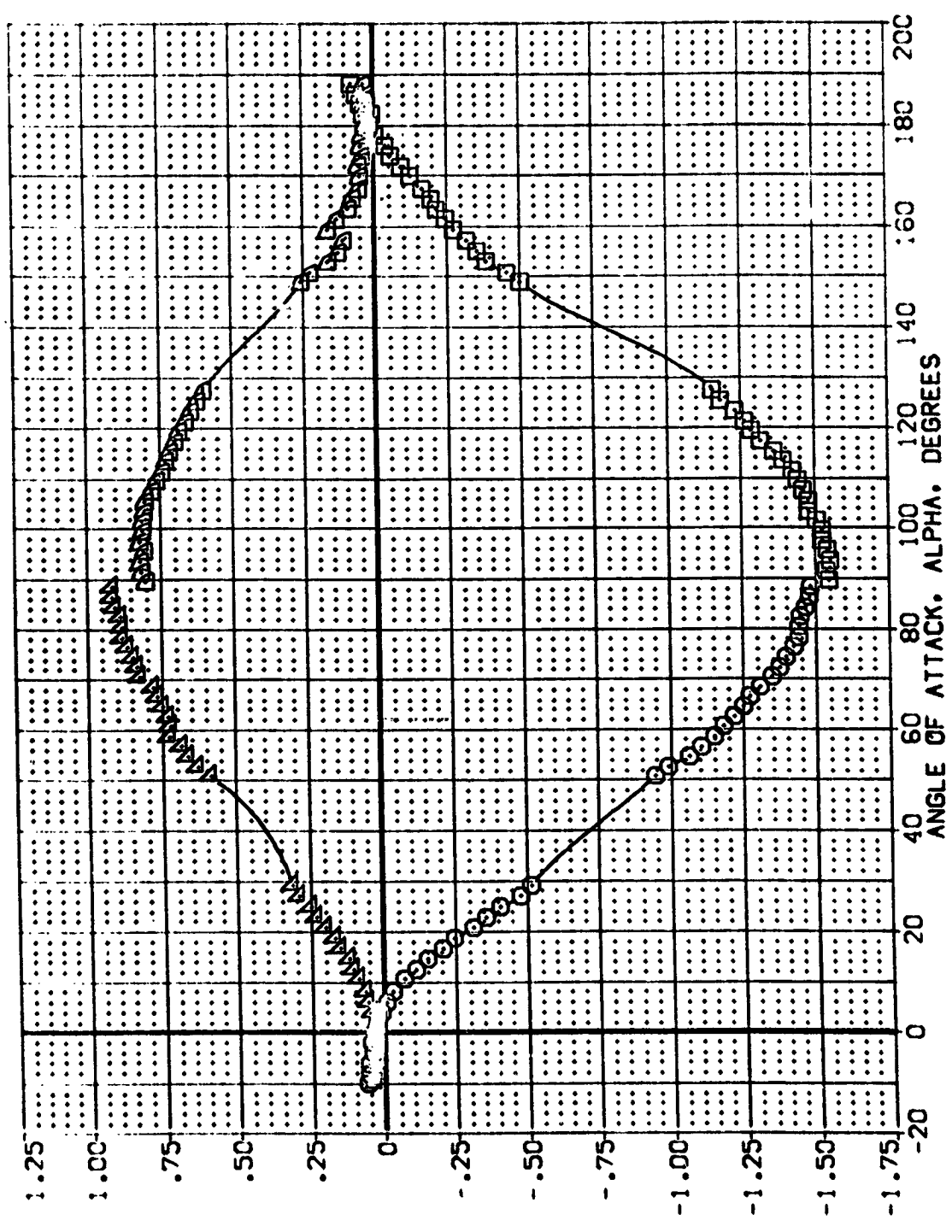
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CONFIGURATION DESCRIPTION

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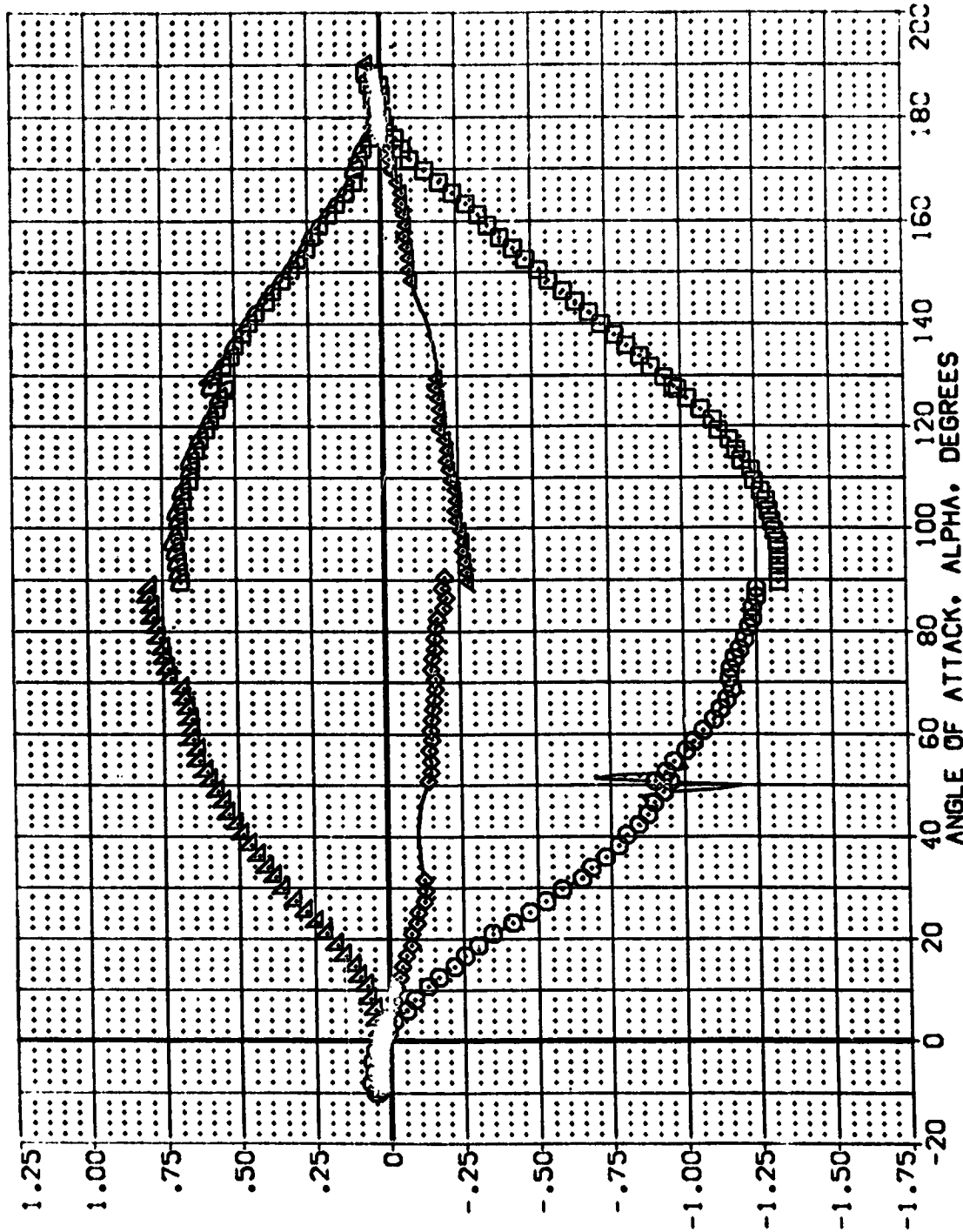


ROLLING MOMENT COEFFICIENT, CRL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(C)MACH = 1.19

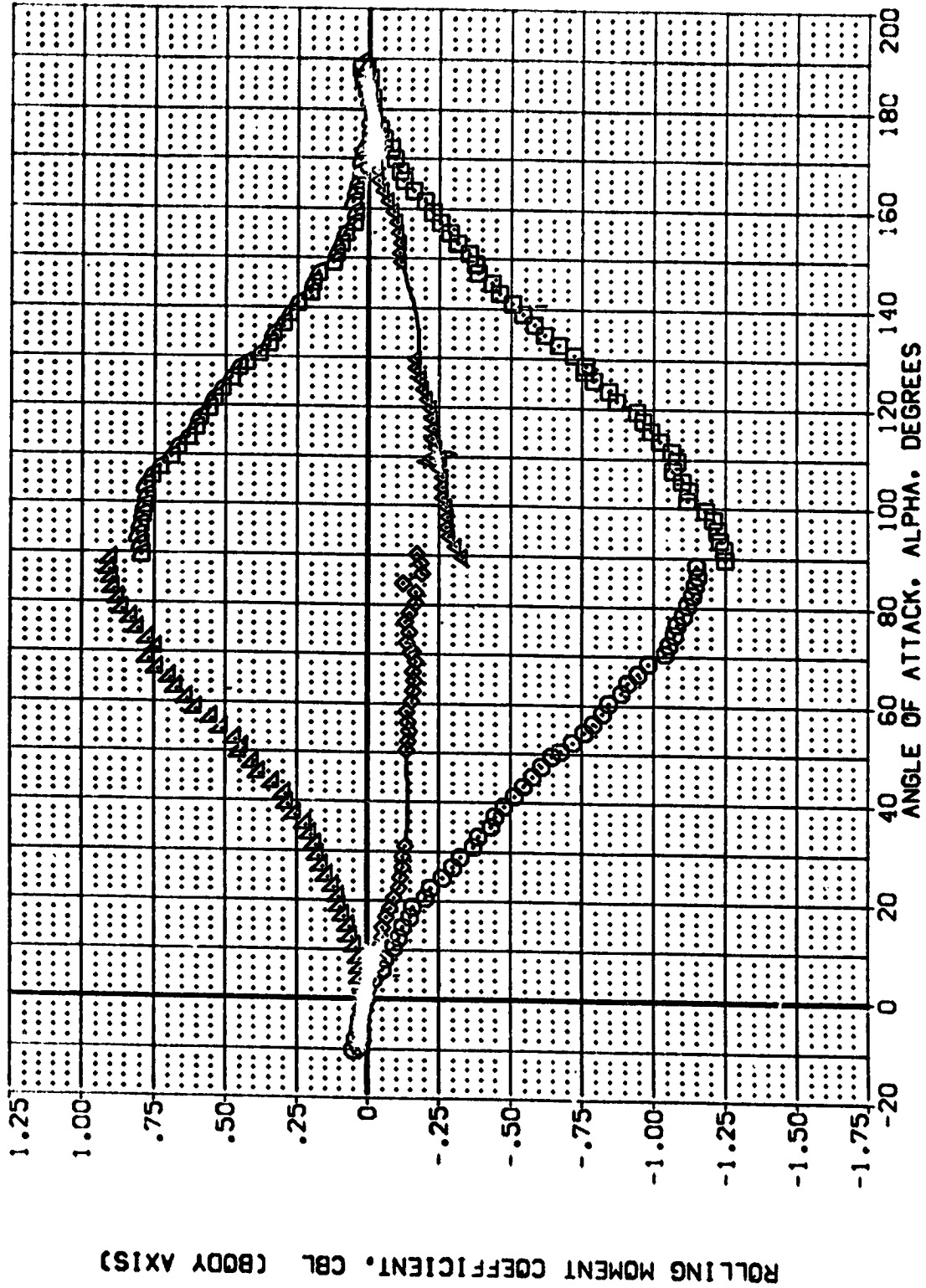
PAGE :79



REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    PHI    REFERENCE INFORMATION

[R57A:7]	MS C 587(FA4) TITAN III C SRM (NBETP)	.000	180.000	SREF	6.350	IN
[R57A:8]	MS C 587(FA4) TITAN III C SRM (NBETP)	.000	180.000	LREF	5.000	
[R57A:5]	MS C 587(FA4) TITAN III C SRM (NBETP)	.000	202.500	BREF	5.000	
[R57A:6]	MS C 587(FA4) TITAN III C SRM (NBETP)	.000	202.500	XMRP	4.6300	
[R57A:3]	MS C 587(FA4) TITAN III C SRM (NBETP)	.000	225.000	YMRP	.0000	
[R57A:4]	MS C 587(FA4) TITAN III C SRM (NBETP)	.000	225.000	ZMRP	.0000	
				SCALE	.0074	



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(C)MACH = 3.48

PAGE 13:

DATA SET SYMBOL CONFIGURATION DESCRIPTION

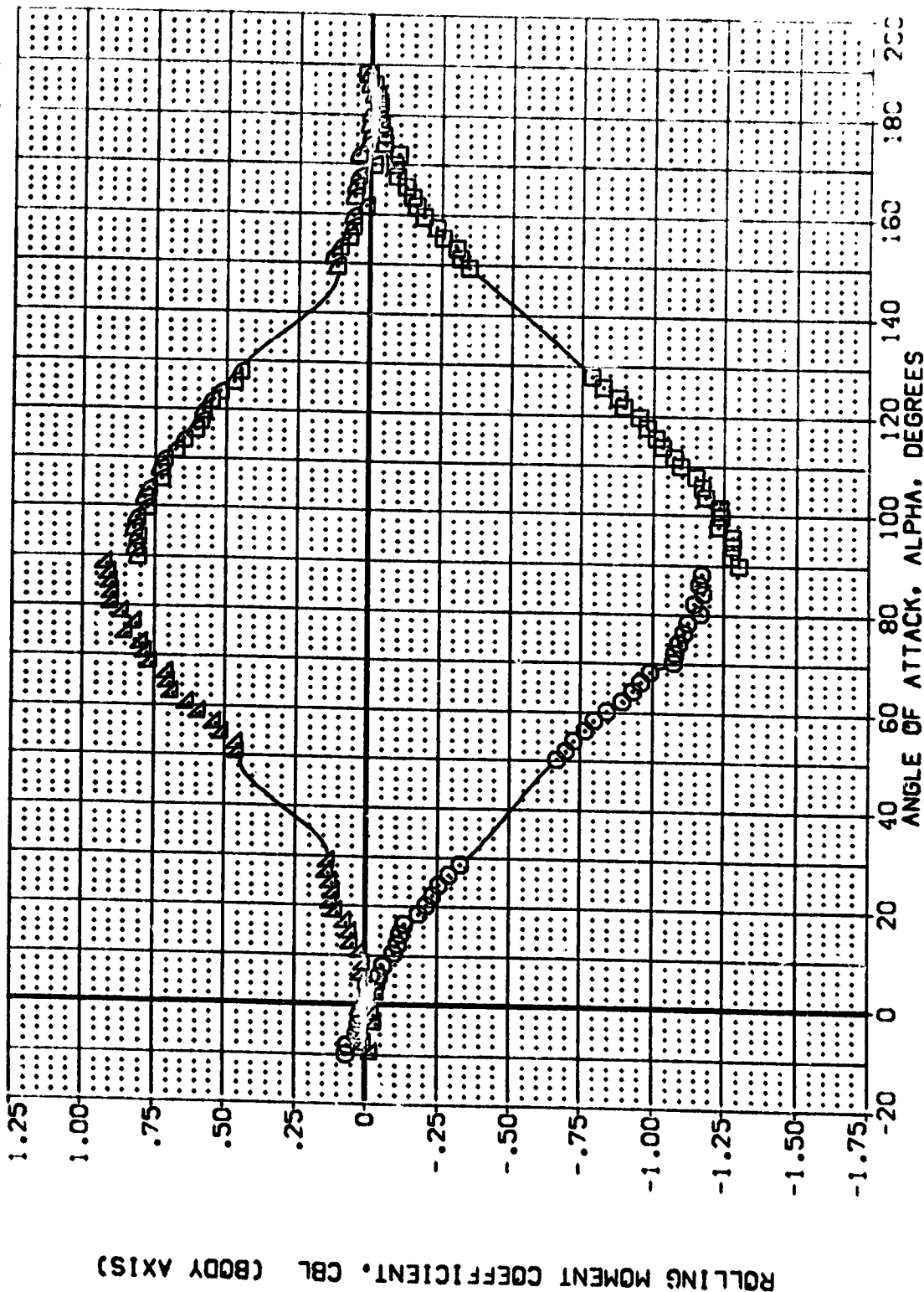
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RS7A(5)	DATA NOT AVAILABLE
RS7A(6)	DATA NOT AVAILABLE
RS7A(3)	MSFC 587(FA4) TITAN III C SRM (NBETP)
RS7A(4)	MSFC 587(FA4) TITAN III C SRM (NBETP)

BETA PH

BETA	PH
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.000	180.000
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.000	225.000

REFERENCE INFORMATION

REFERENCE INFORMATION	SO IN
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LREF	.9000
BREF	.9000
XMRP	4.6330
YMRP	.0000
ZMRP	.0000
SCALE	.0074



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

[F]MACH = 4.96

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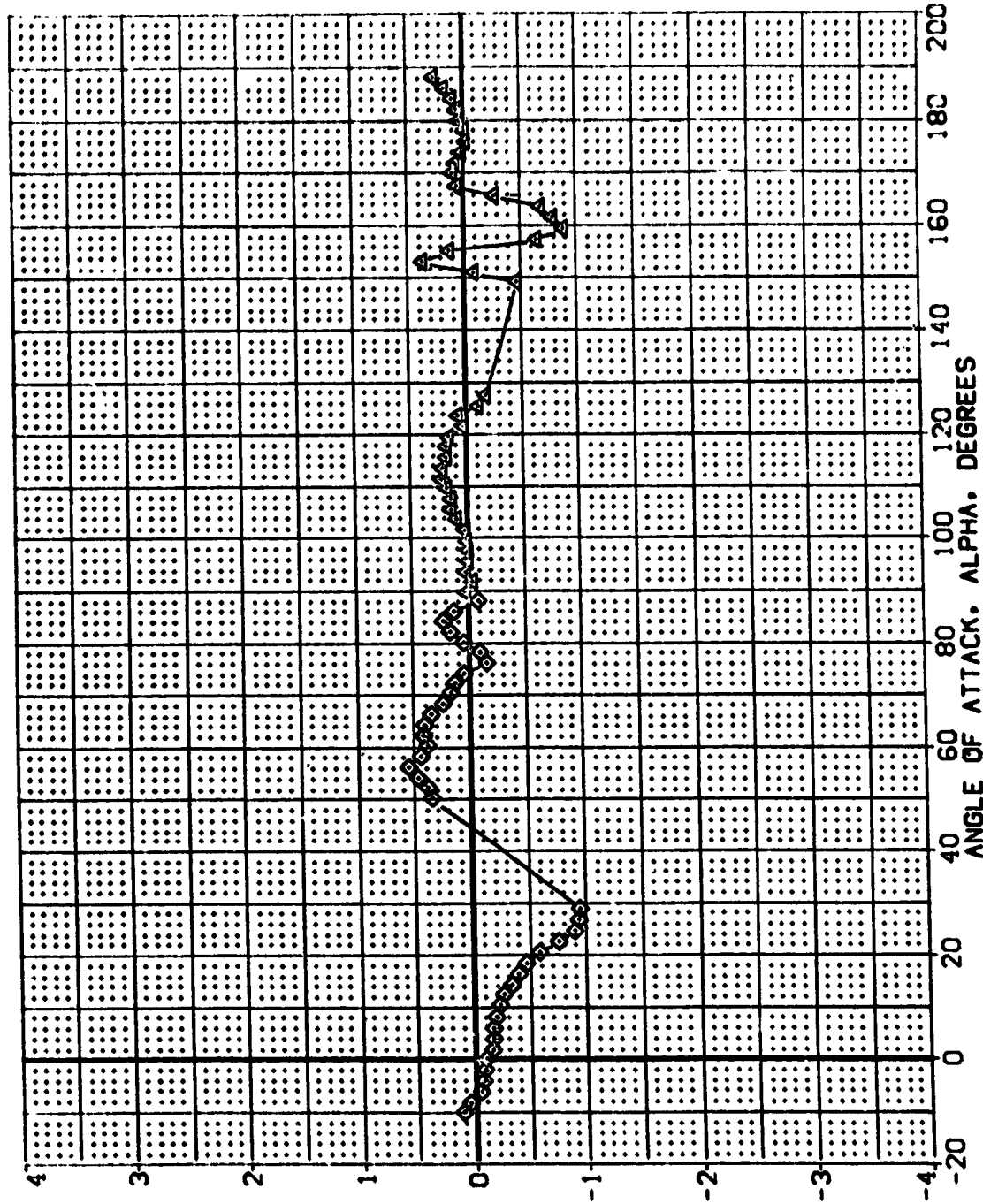
REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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YREF 9000  
ZREF 9000  
SCALE 0074

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[R57A33] DATA NOT AVAILABLE

MISSILE AXIS SIDE FORCE COEFFICIENT, C<sub>YM</sub>



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(A)MACH = .60

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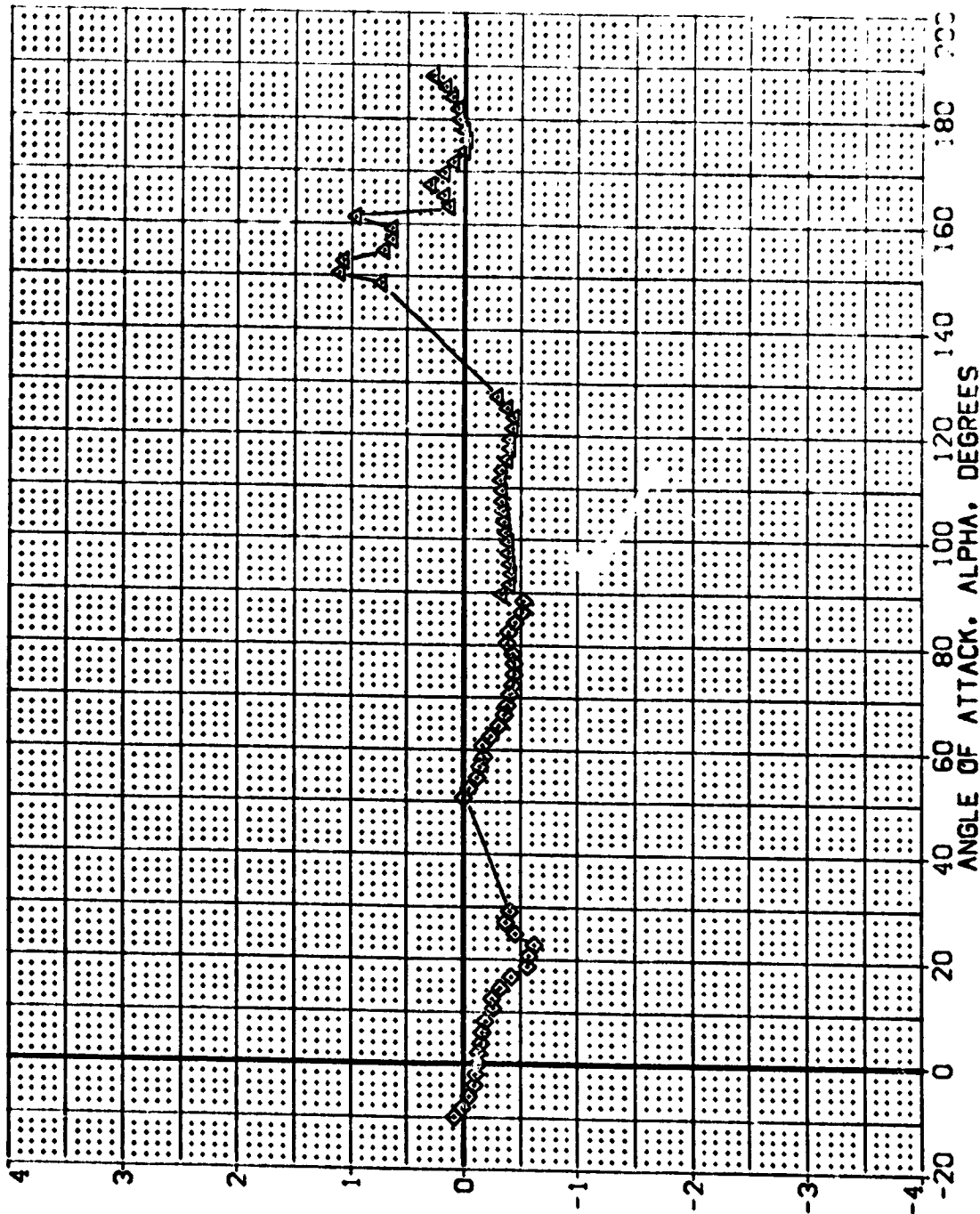
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## REFERENCE INFORMATION

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 BREF .9000 IN.  
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 YMRP 4 IN.  
 ZMRP 4 IN.  
 SCALE .0074

MISSILE AXIS SIDE FORCE COEFFICIENT, CYM



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MACH = .90

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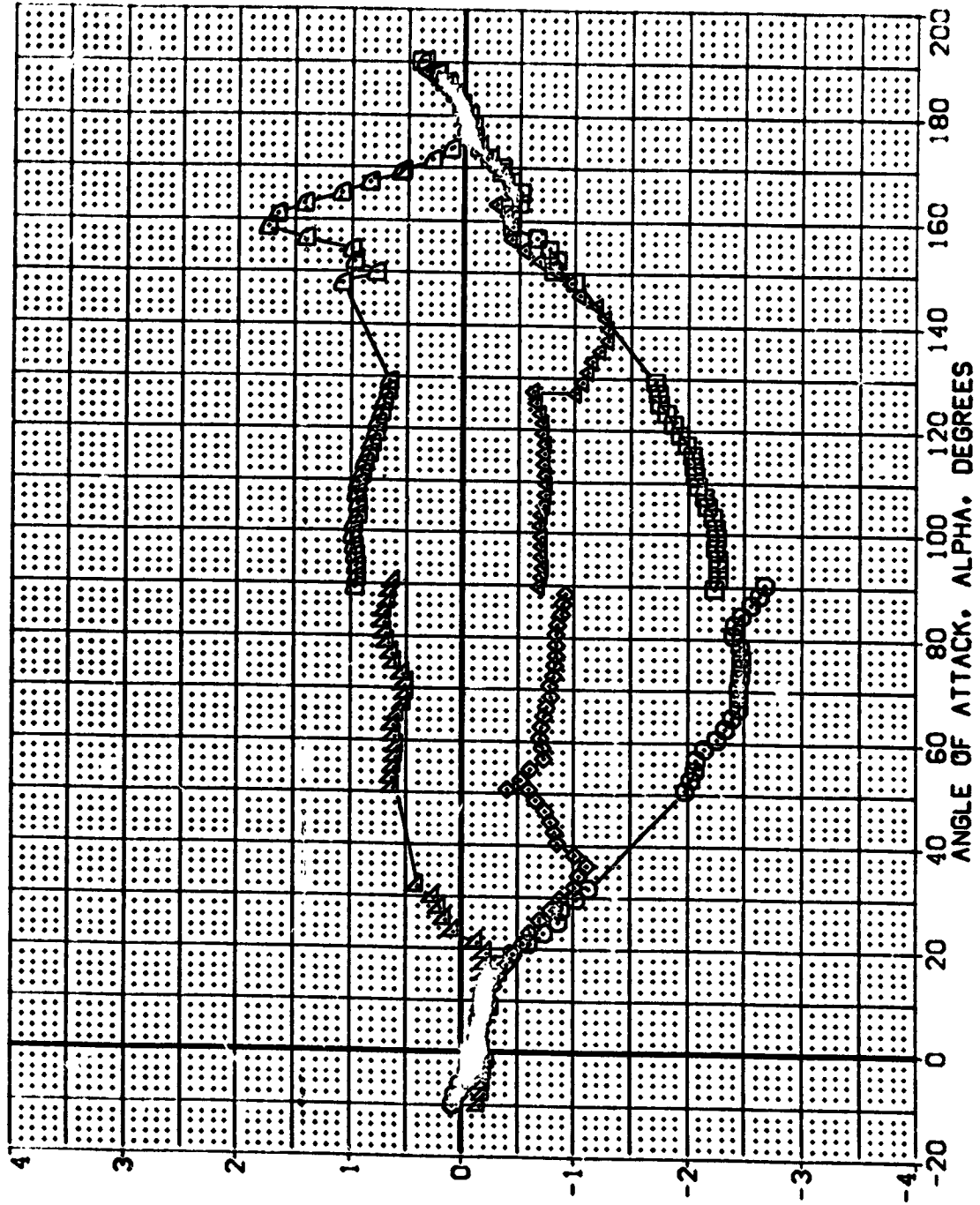
REPRODUCIBILITY OF THE  
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SCALE .0074

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P57A12 C S87(FA4) TITAN C S87(NBTP)  
P57A13 C S87(FA4) TITAN C S87(NBTP)  
P57A14 C S87(FA4) TITAN C S87(NBTP)  
P57A15 C S87(FA4) TITAN C S87(NBTP)  
P57A16 C S87(FA4) TITAN C S87(NBTP)  
P57A17 C S87(FA4) TITAN C S87(NBTP)  
P57A18 C S87(FA4) TITAN C S87(NBTP)

MISSILE AXIS SIDE FORCE COEFFICIENT, C<sub>Y</sub>



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBTP)

(C)MACH = 1.20

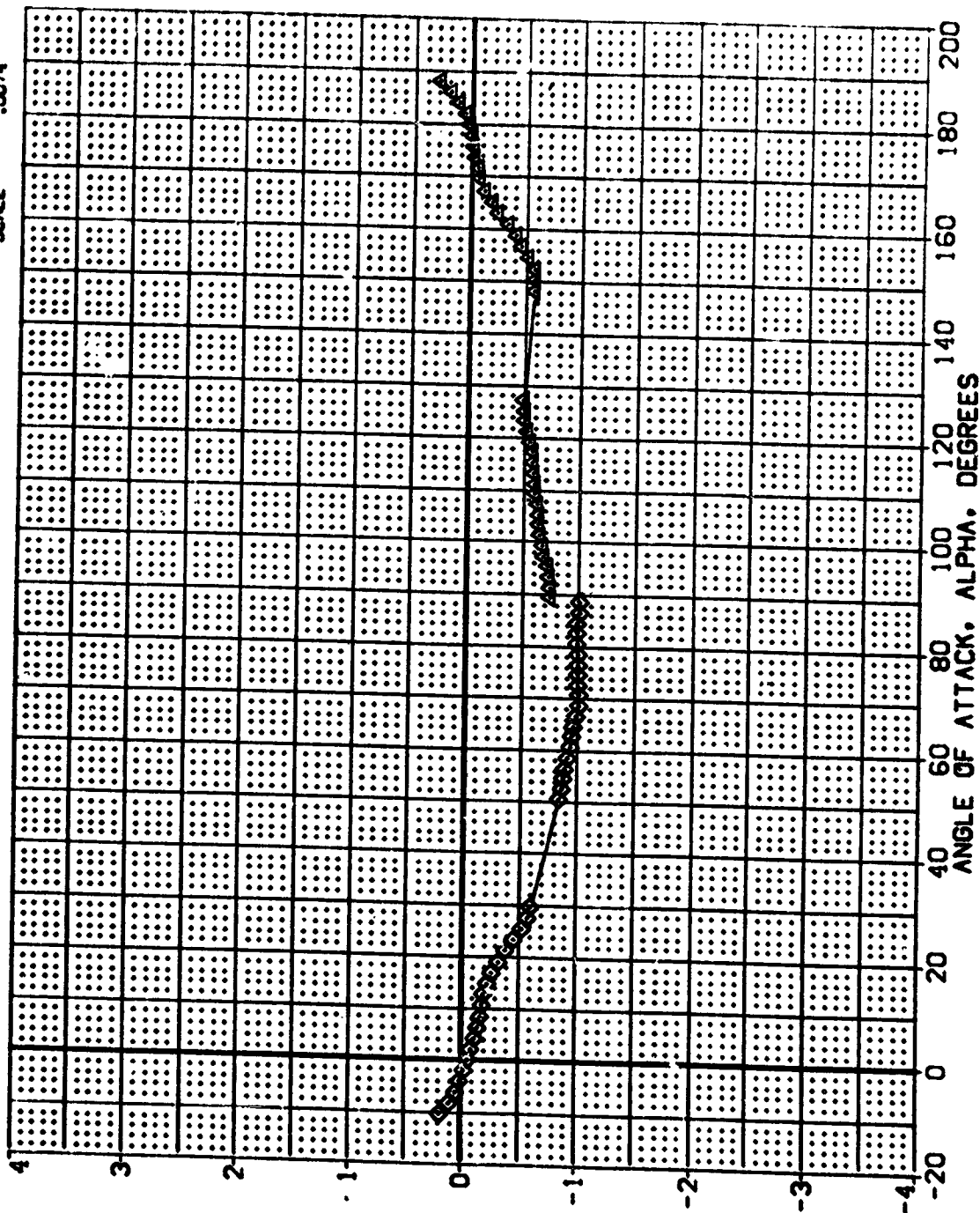
PAGE 135

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 [R57A05] M57C 507 (F4) TITAN III C 504 (NBETP)  
 [R57A10] M57C 507 (F4) TITAN III C 504 (NBETP)  
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 [R57A08] DATA NOT AVAILABLE

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 BREF .9000 IN.  
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 ZMRP .0000 IN.  
 SCALE .0074

MISSILE AXIS SIDE FORCE COEFFICIENT, CYM



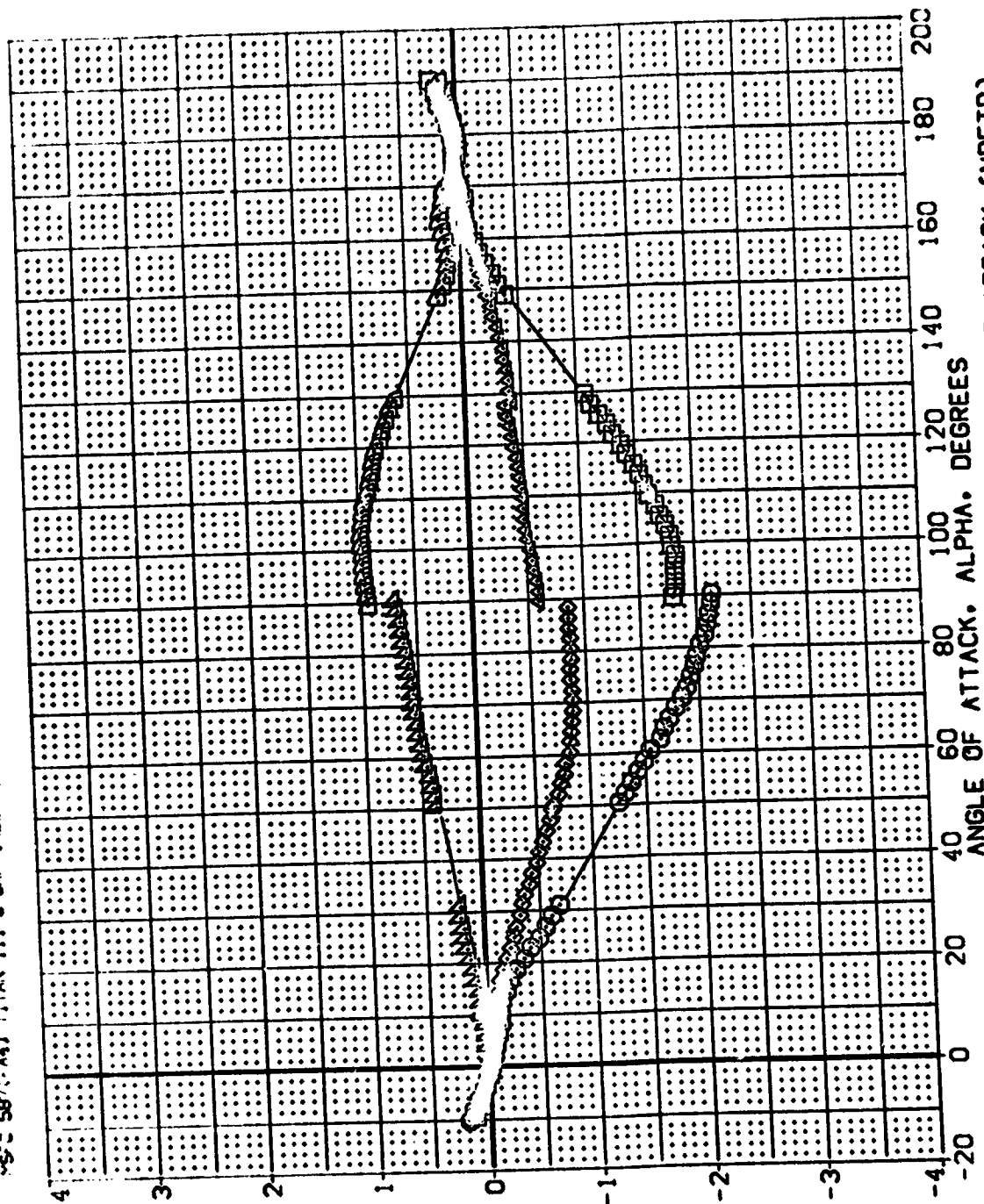
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(O)MACH = 1.96

PAGE 136



97A-608

MISSILE AXIS SIDE FORCE COEFFICIENT, C<sub>YM</sub>

	-20	-10	0	10	20	ANGLE OF ATTACK, ALPHA, DEGREES
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)						PAGE

$$(E)_{\text{MACH}} = 3.48$$

PAGE : 37

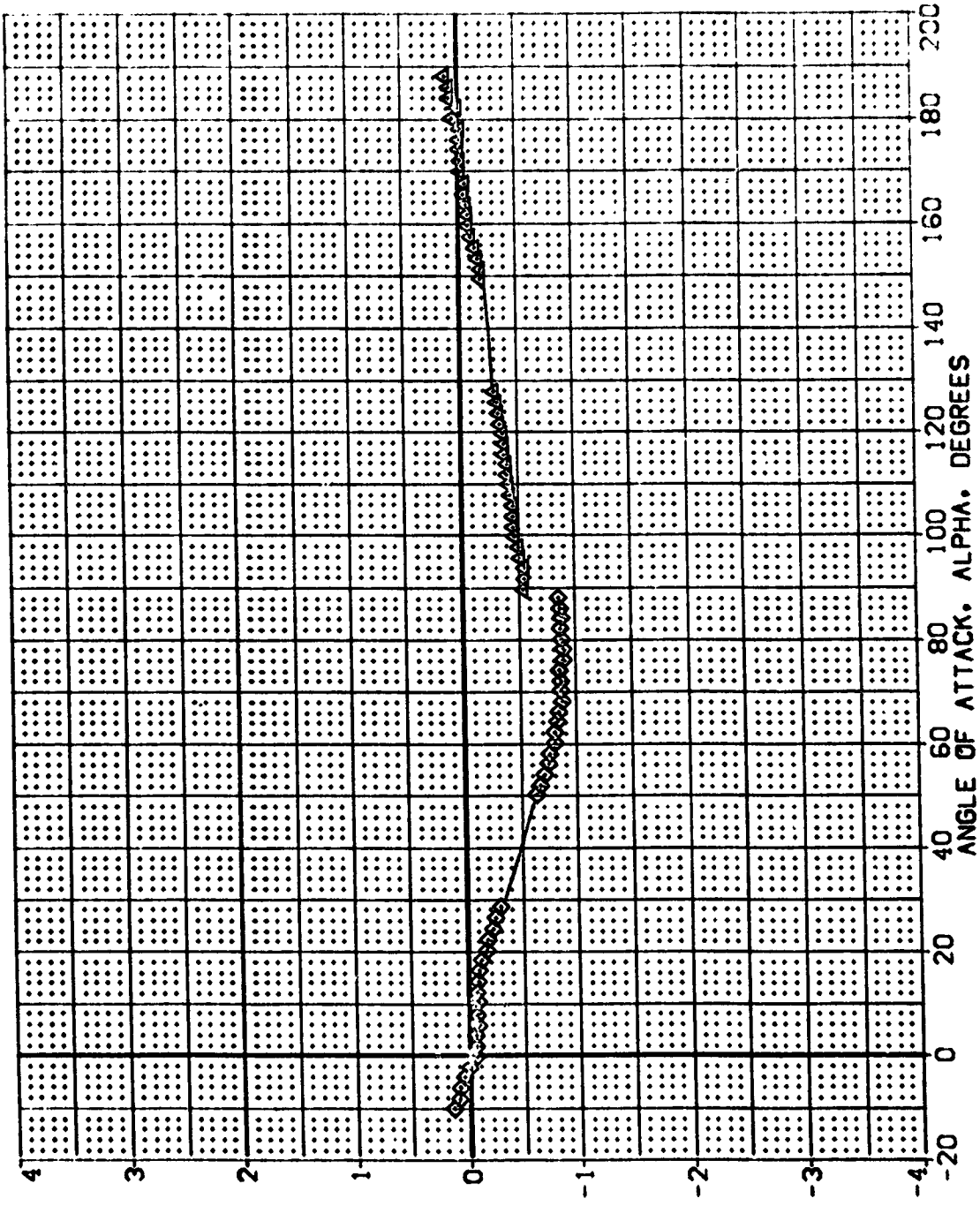


MISSILE AXIS SIDE FORCE COEFFICIENT, C<sub>YM</sub>

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[977A17] DATA NOT AVAILABLE

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.000 292.500  
.000 292.500

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BREF 6360  
XMRP 4.6330  
YMRP 6360  
ZMRP 6360  
SCALE 6360



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(F)MACH = 4.96

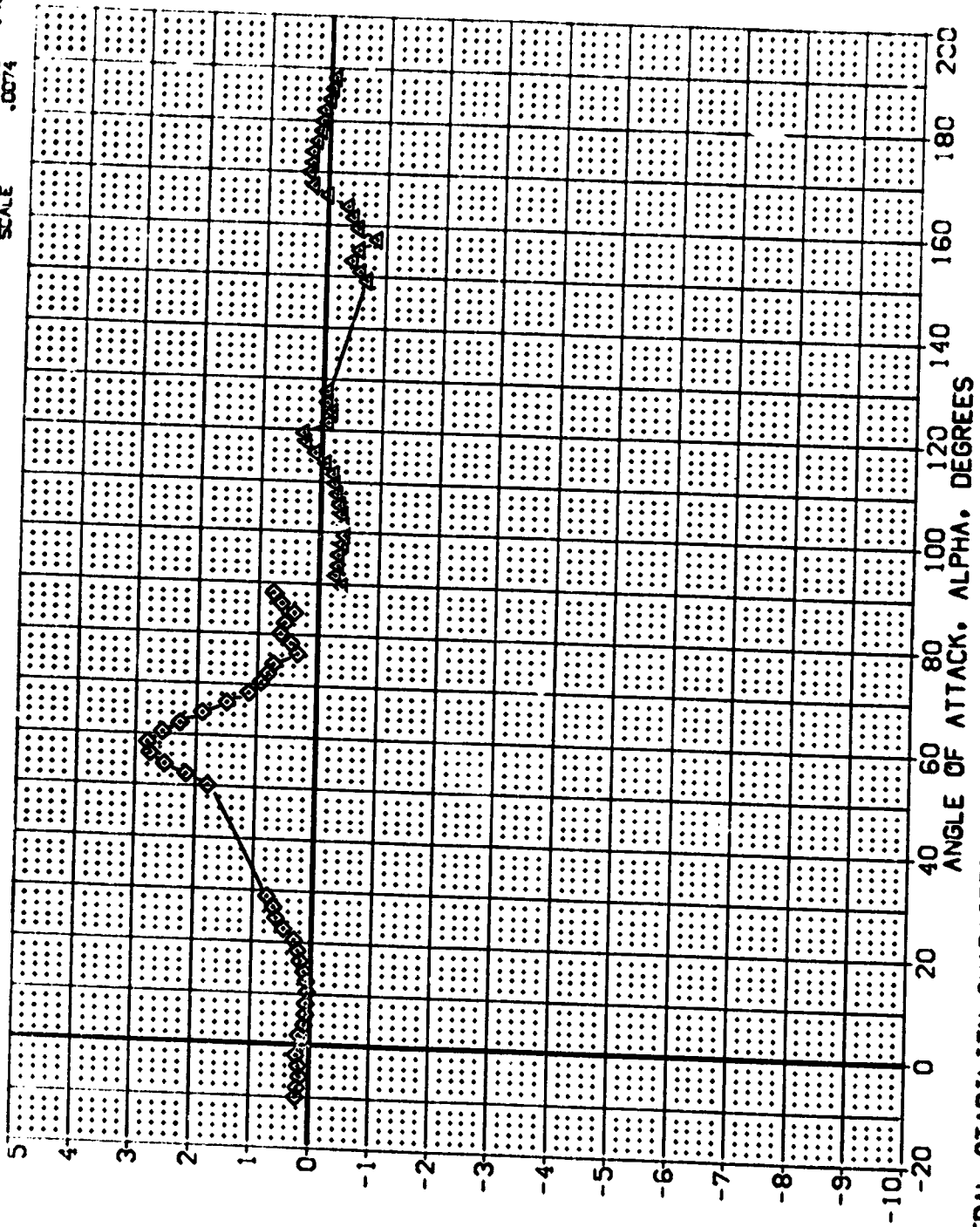
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ORIGINAL PAGE IS POOR

[illegible]

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BREF	.9000
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YREF	.6360
ZREF	.9000
SCALE	.0074

MISSILE AXIS YAWING MOMENT COEFFICIENT, CYNM



# LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

$$[A]_{MAC_H} = .60$$

PAGE : 39



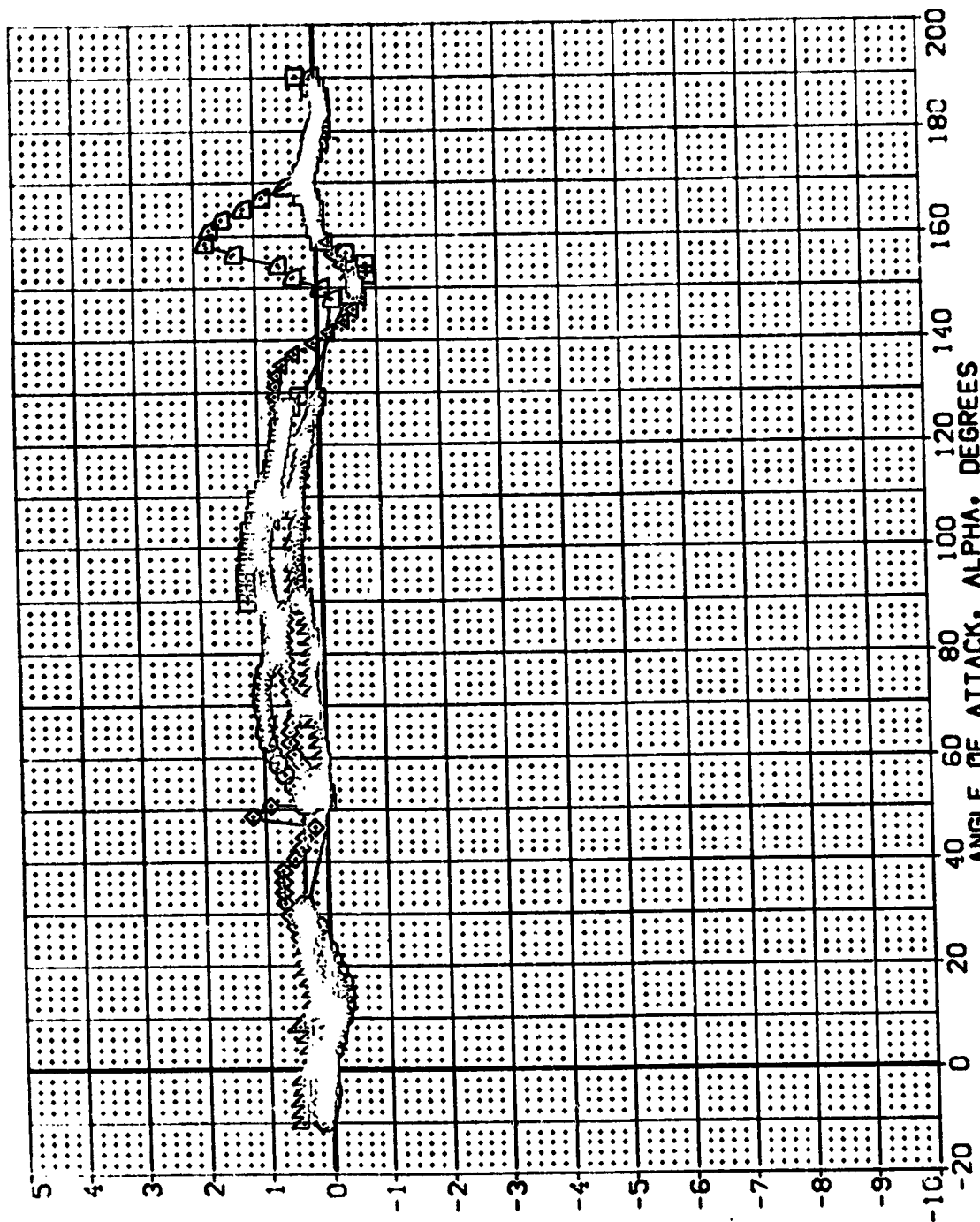
REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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6362  
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5000  
4.6300  
0000  
0000  
0074

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000 270.000  
000 270.000  
000 292.500  
000 292.500

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S87(PA4) TITAN III CSM (NBTP)  
S87(PA4) TITAN III CSM (NBTP)  
S87(PA4) TITAN III CSM (NBTP)  
S87(PA4) TITAN III CSM (NBTP)  
S87(PA4) TITAN III CSM (NBTP)

MISSILE AXIS YAWING MOMENT COEFFICIENT, CYNM



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBTP)

PAGE 141

(C)MACH = 1.20

DATA SET SYMBOL. CONFIGURATION DESCRIPTION

RS7A111 DATA NOT AVAILABLE

RS7A121 DATA NOT AVAILABLE

RS7A131 MSFC 5871FA4 TITAN III C SRM (NBETP)

RS7A141 MSFC 5871FA4 TITAN III C SRM (NBETP)

RS7A151 DATA NOT AVAILABLE

RS7A161 DATA NOT AVAILABLE

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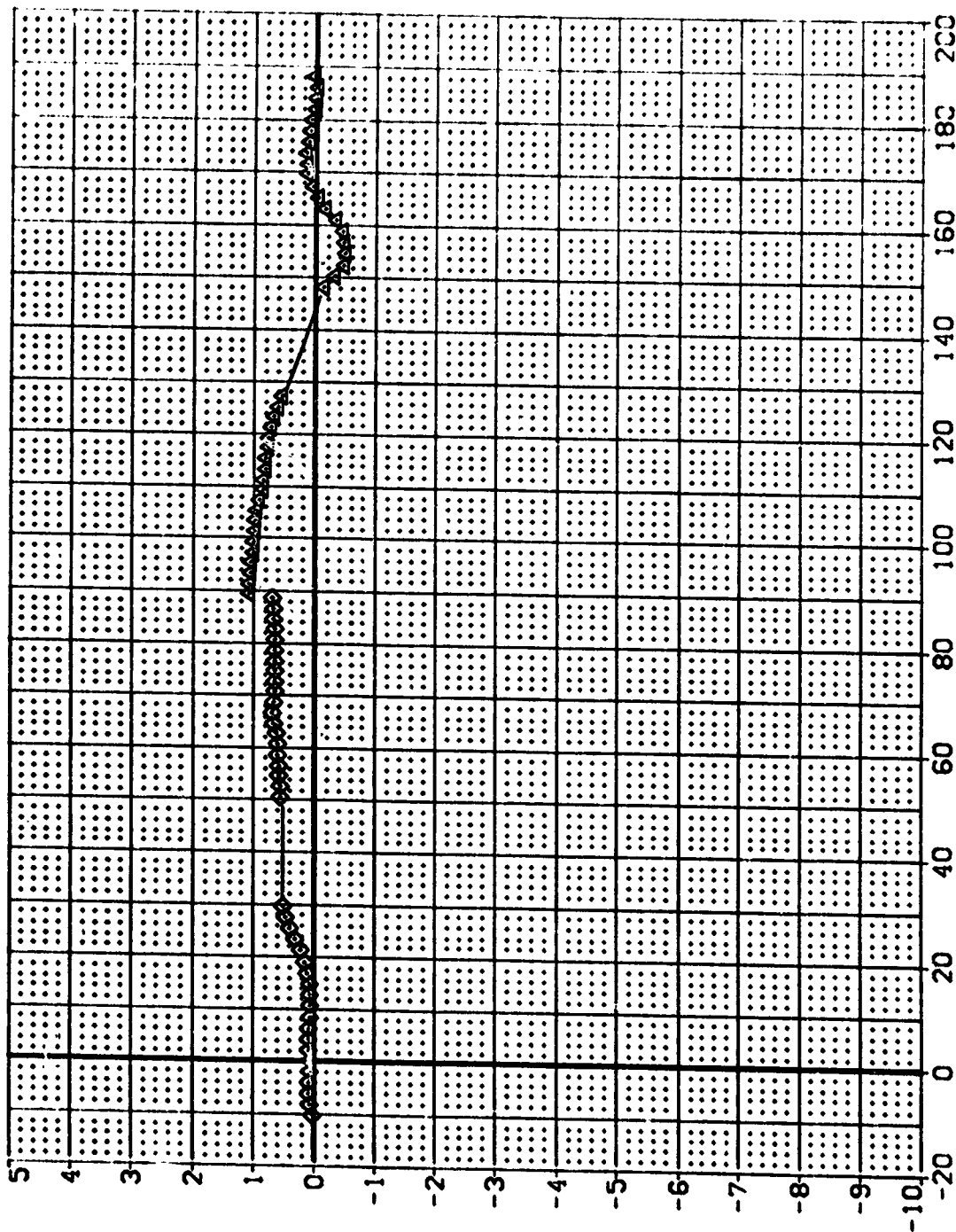
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LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(DJ)MACH = 1.96

PAGE : 42





REFERENCE INFORMATION IN

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BREF	.9000
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SCALE	.0074

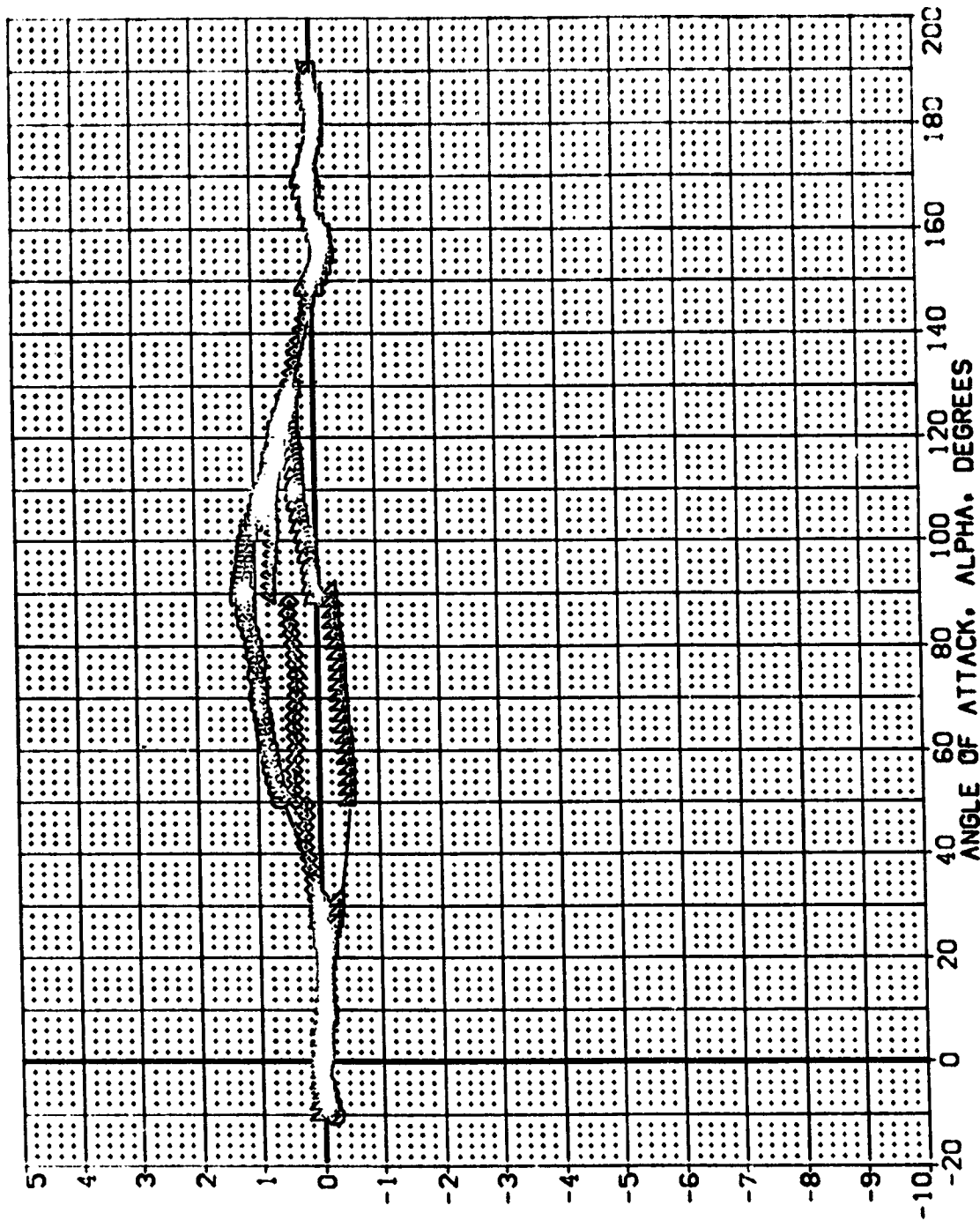
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.000	292.500

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000002	SC 587(F4)	TITAN	III	CSM	(NBETP)
000003	SC 587(F4)	TITAN	III	CSM	(NBETP)
000004	SC 587(F4)	TITAN	III	CSM	(NBETP)
000005	SC 587(F4)	TITAN	III	CSM	(NBETP)

MISSILE AXIS YAWING MOMENT COEFFICIENT, C<sub>YNM</sub>



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(E)MACH = 3.48

PAGE : 43



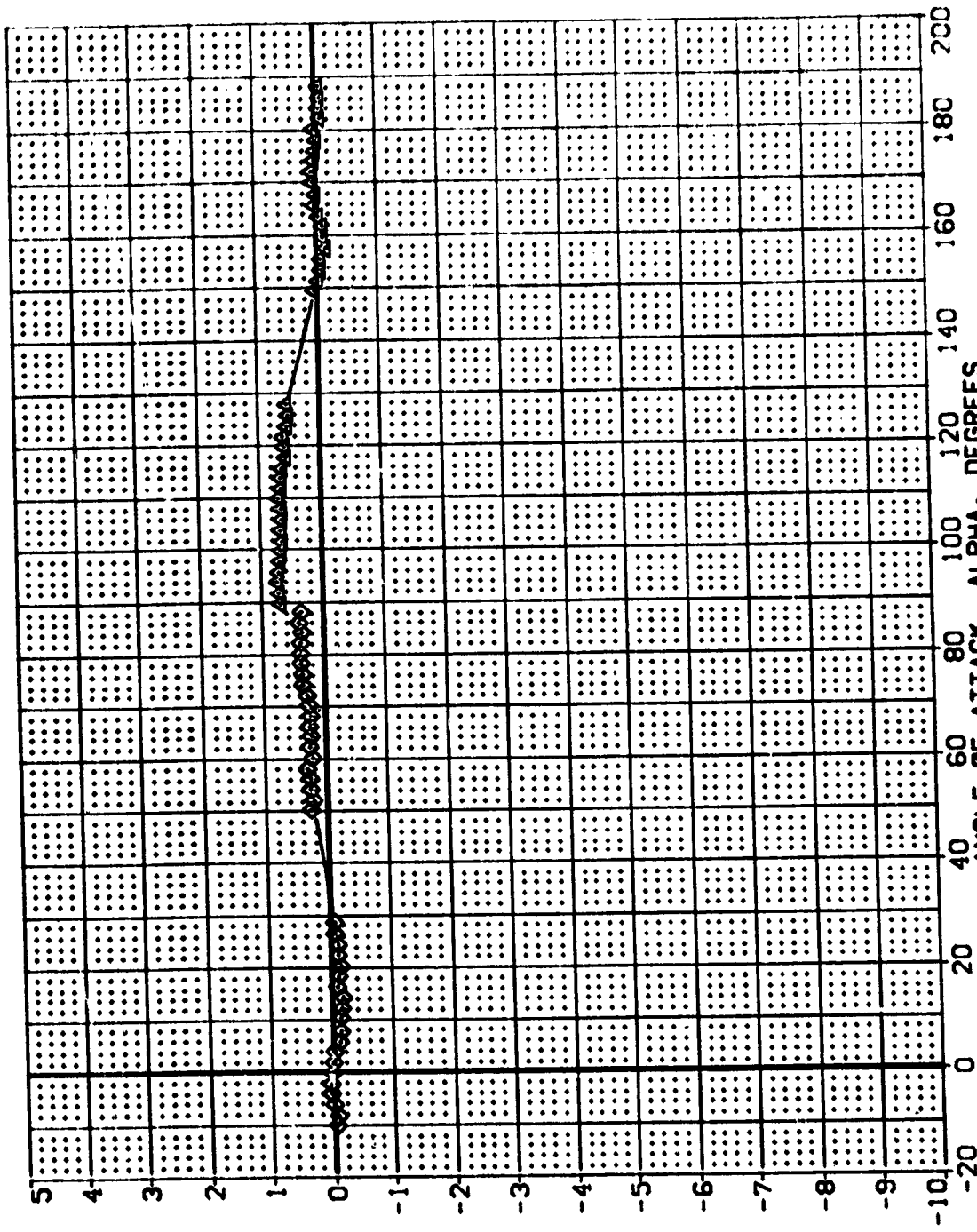
MISSILE AXIS YAWING MOMENT COEFFICIENT, C<sub>YM</sub>

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0.000 270.000  
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0.000 292.500

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YMRP 0.0000 1.000  
ZMRP 0.0000 1.000  
SCALE 0.074



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(F)MACH = 4.96

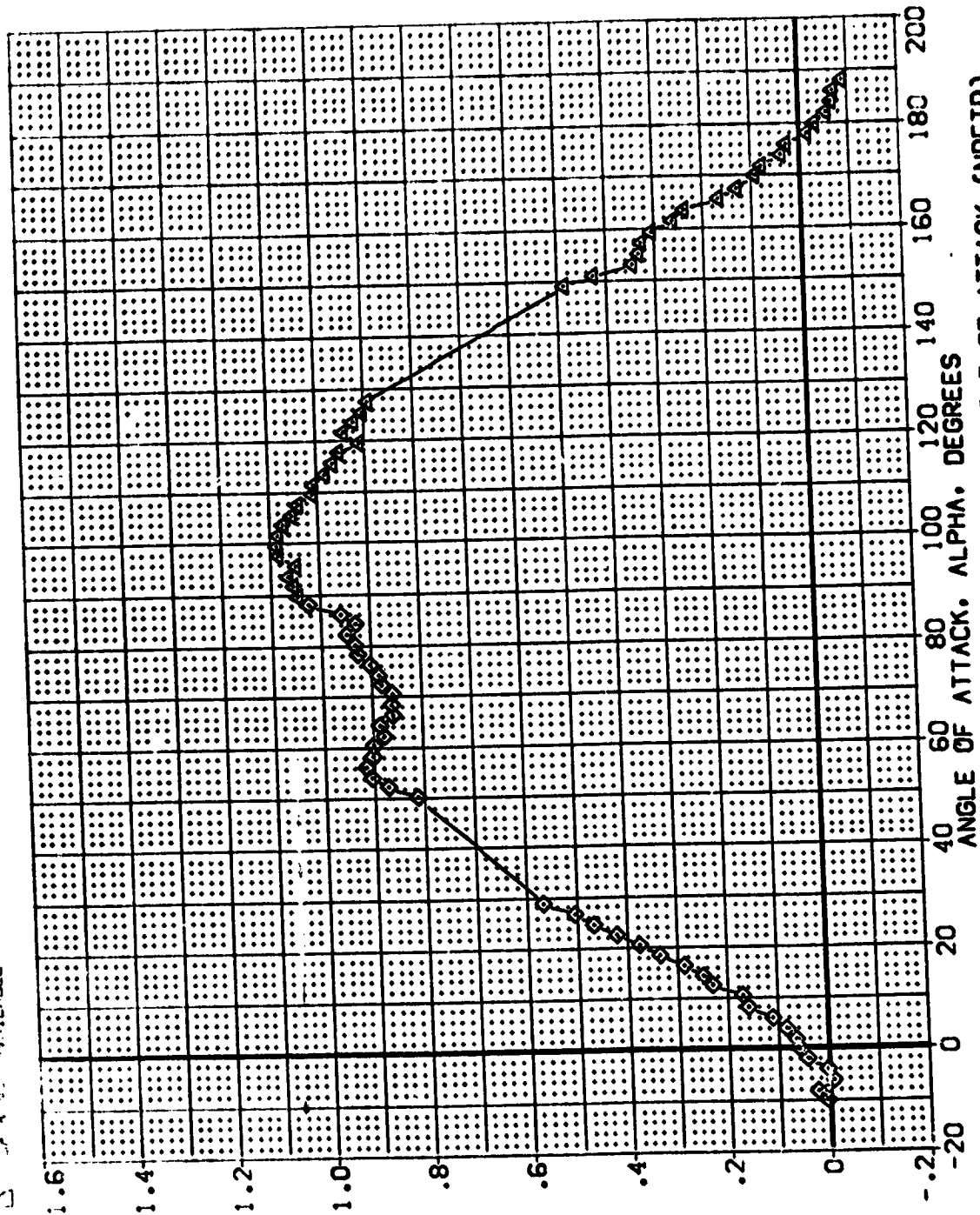
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SCALE	.0074	

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.000	270.000
.000	270.000
.000	292.500
.000	292.500

[illegible]

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

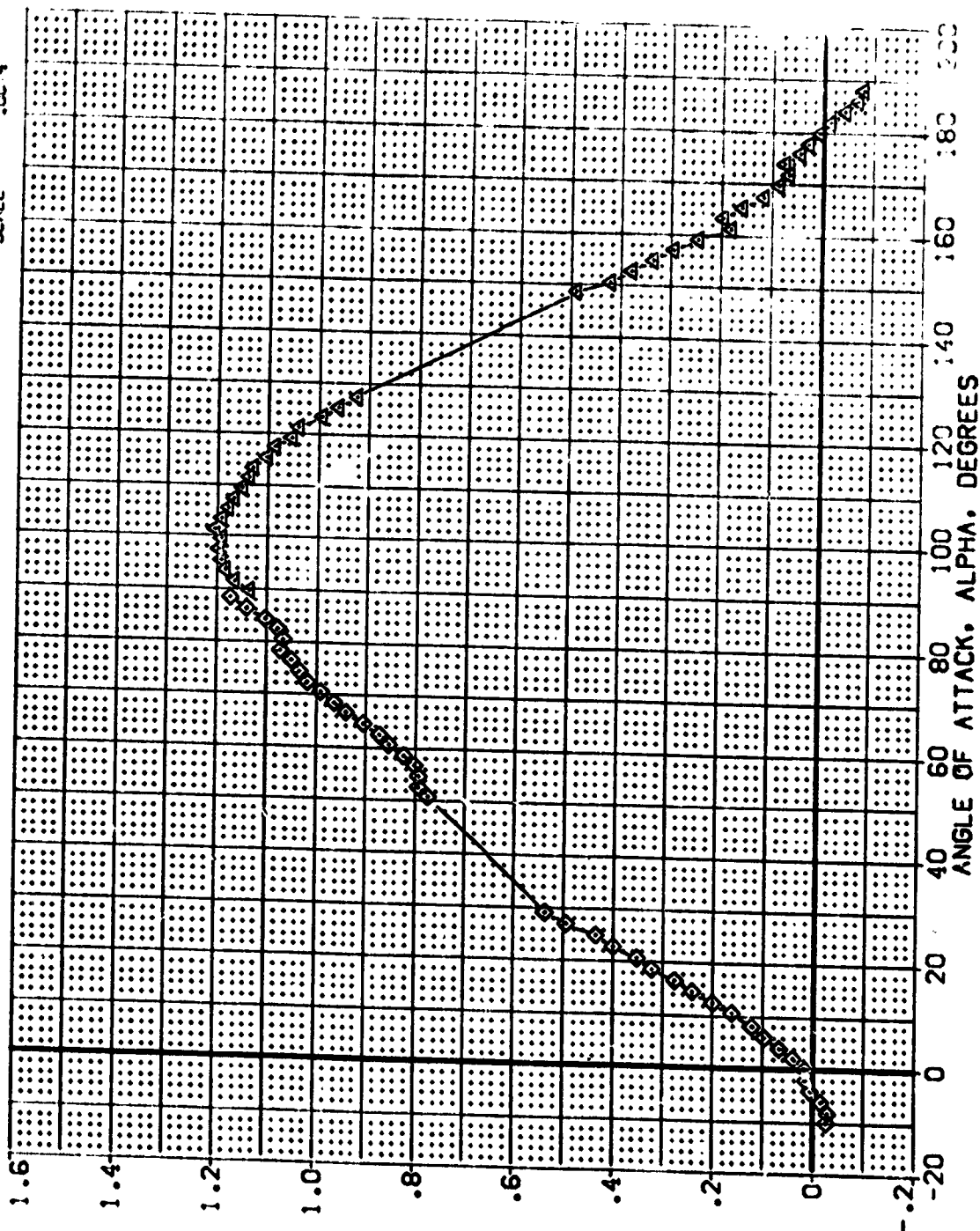
$$C_{\text{MACH}} = .60$$

PAGE 145

[illegible]

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.000	292.500

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LBREF	0000
4	0330
XMRP	0000
YMRP	0000
ZMRP	0000
SCALE	0004



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

# LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

$$C(B)MAC_H = .90$$

2AS  
130



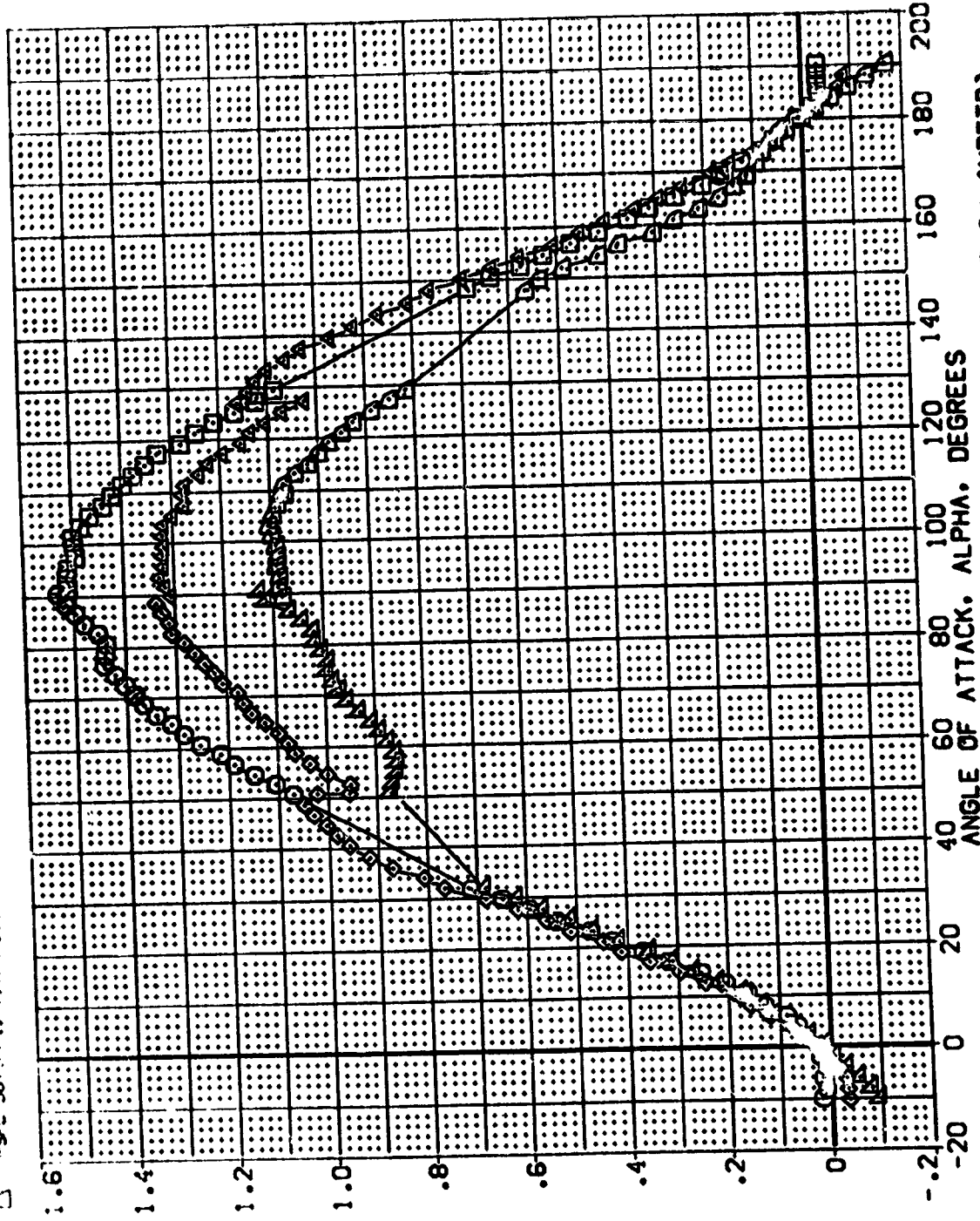
REPRODUCIBILITY OF THE  
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BREF	.900C	IN.
X-REF	4.636C	IN.
Y-REF	.000C	IN.
Z-REF	.000C	IN.
SCALE	.0074	IN.

BETA	PHI
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.000	292.500

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DATA12	50	44	TAN	INSTR2
DATA13	50	44	TAN	INSTR3
DATA14	50	44	TAN	INSTR4
DATA15	50	44	TAN	INSTR5
DATA16	50	44	TAN	INSTR6
DATA17	50	44	TAN	INSTR7
DATA18	50	44	TAN	INSTR8

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



ANGLE OF ATTACK AND		PAGE	
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)			
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
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65	66	67	68
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**{C}MACH = 1.20**

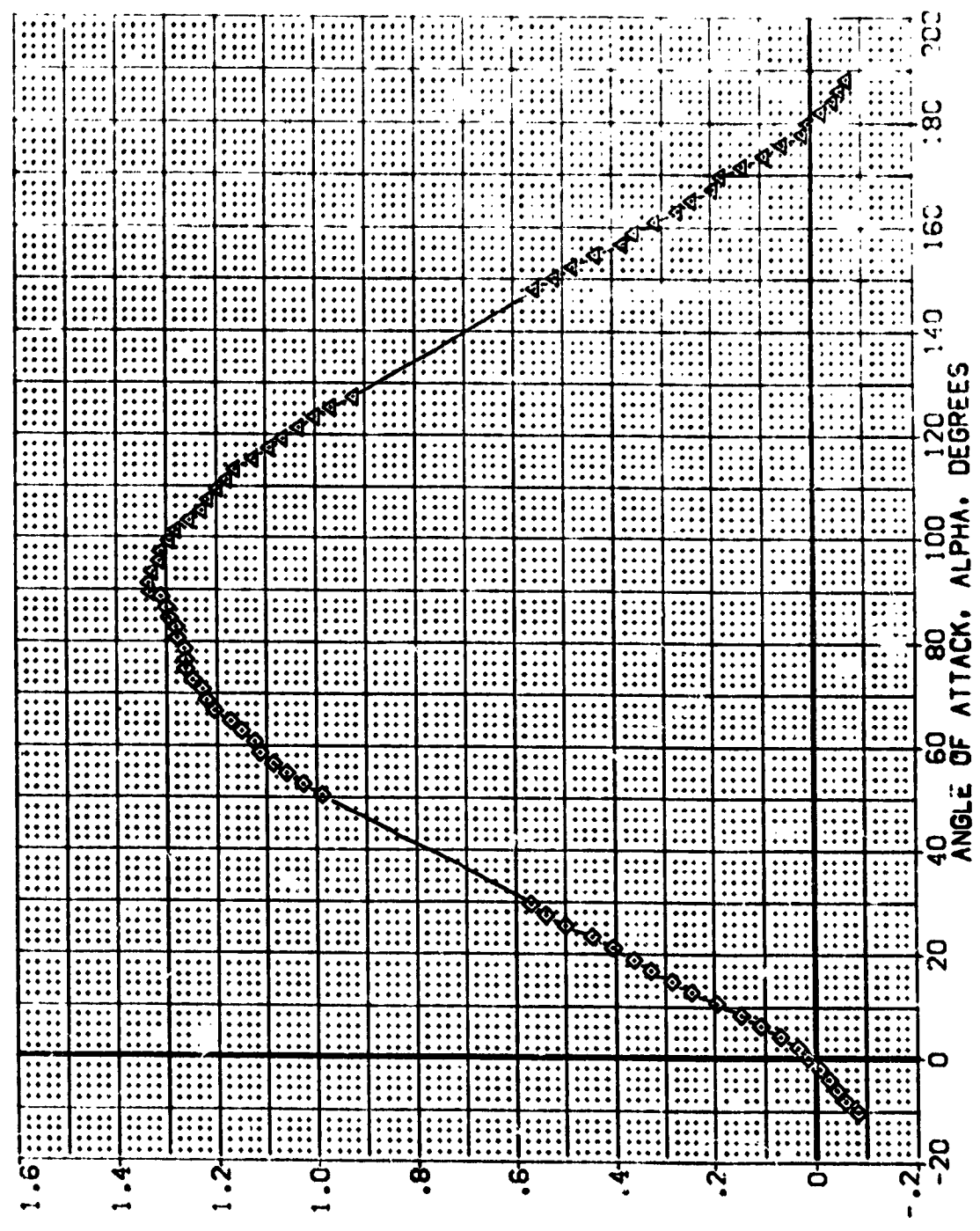
**PAGE 147**

REFERENCE INFORMATION  
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 BRREF .9000  
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 [R57A14] MSFC 587(FM) TITAN III C SRM (NBETP)  
 [R57A15] DATA NOT AVAILABLE  
 [R57A16] DATA NOT AVAILABLE  
 [R57A17] DATA NOT AVAILABLE  
 [R57A18] DATA NOT AVAILABLE

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



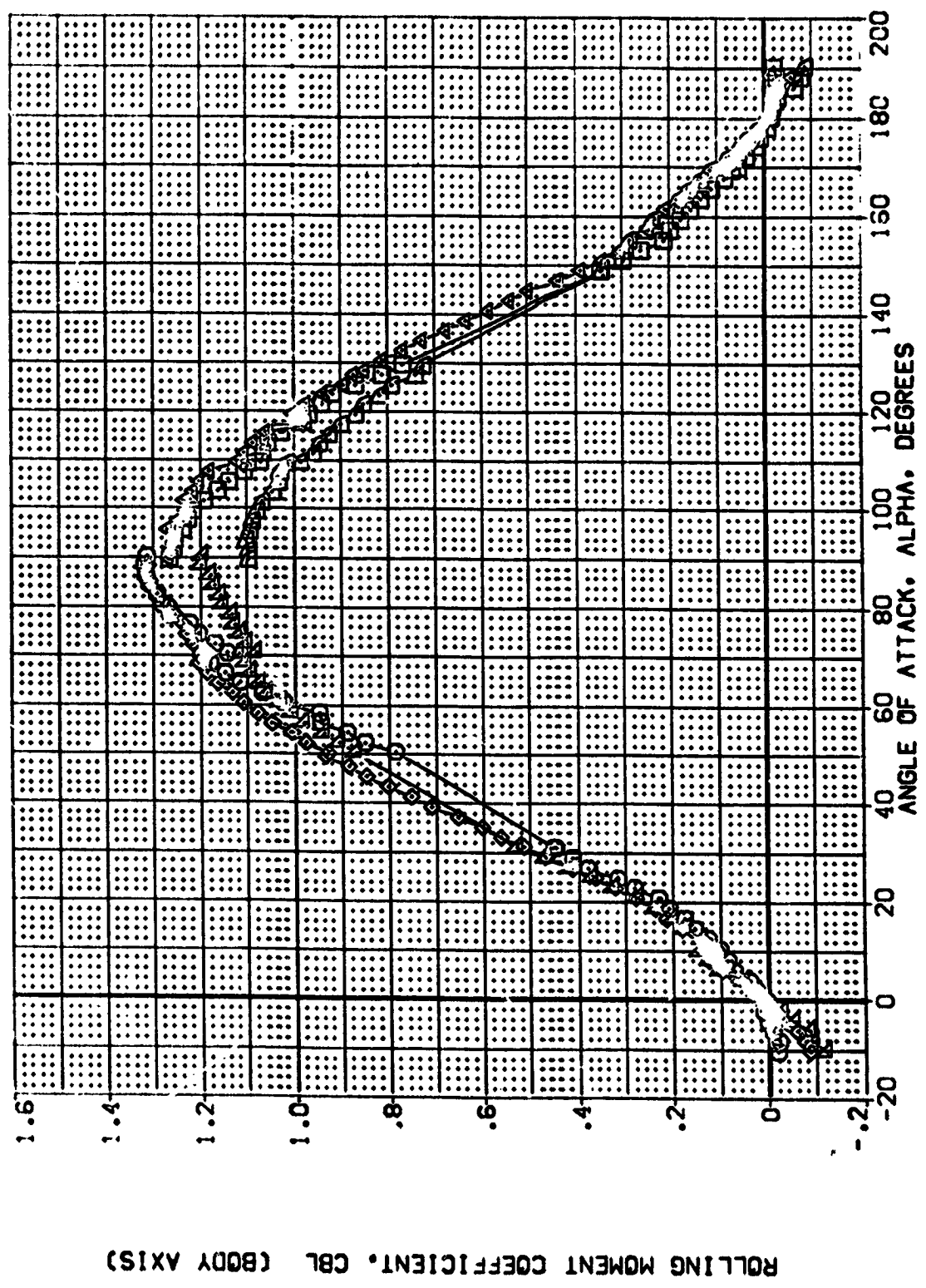
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)



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 SCALE .0074

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 (R7A16) C SRY (NBETP)  
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LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(E)MACH = 3.48



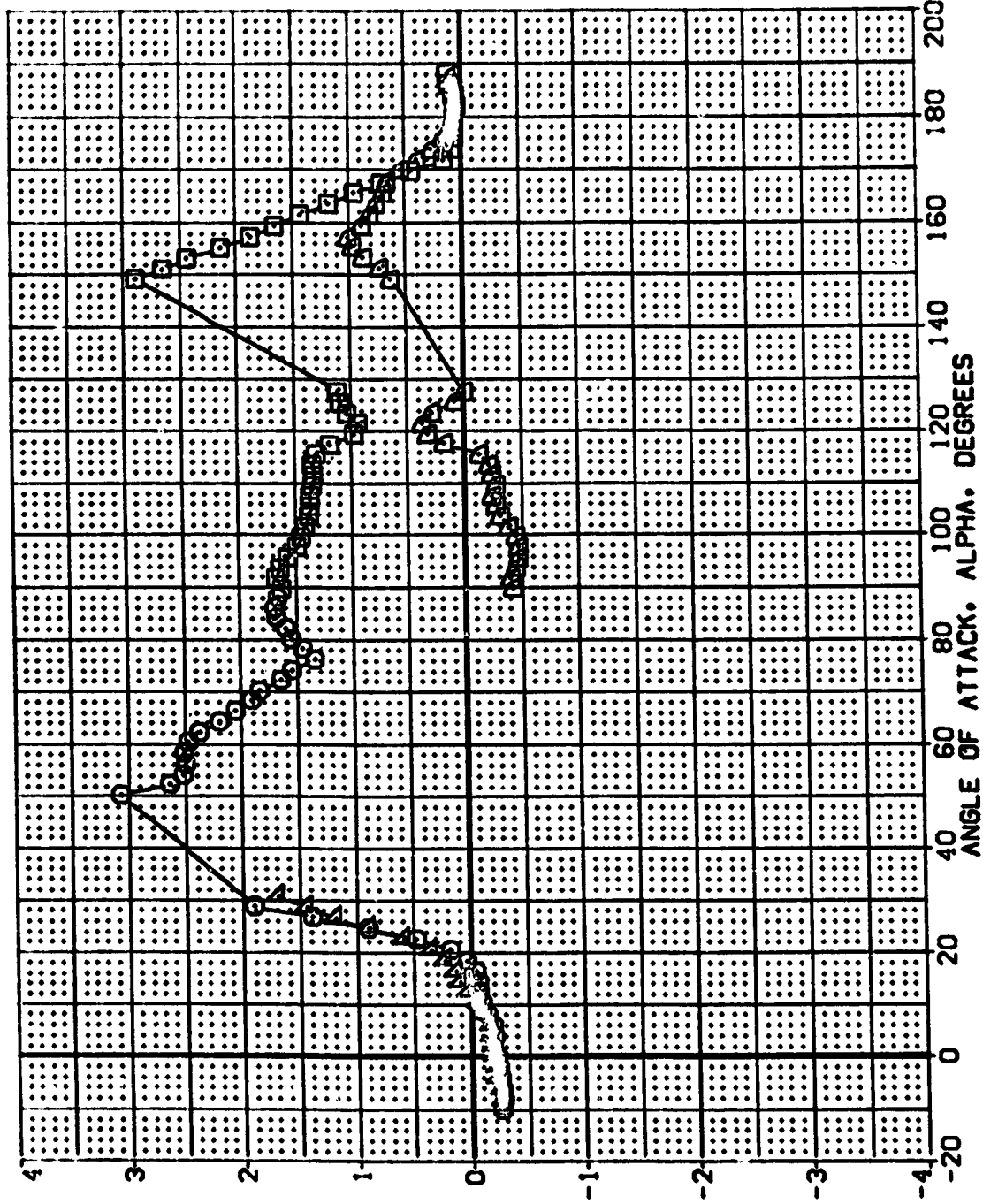


REPRODUCIBILITY OF THE  
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BREF .5000 IN  
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YMRP .0000 IN  
ZMRP .0000 IN  
SCALE .0074

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SCALE .0074

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MISSILE AXIS SIDE FORCE COEFFICIENT, CYM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(AJMACH = .60

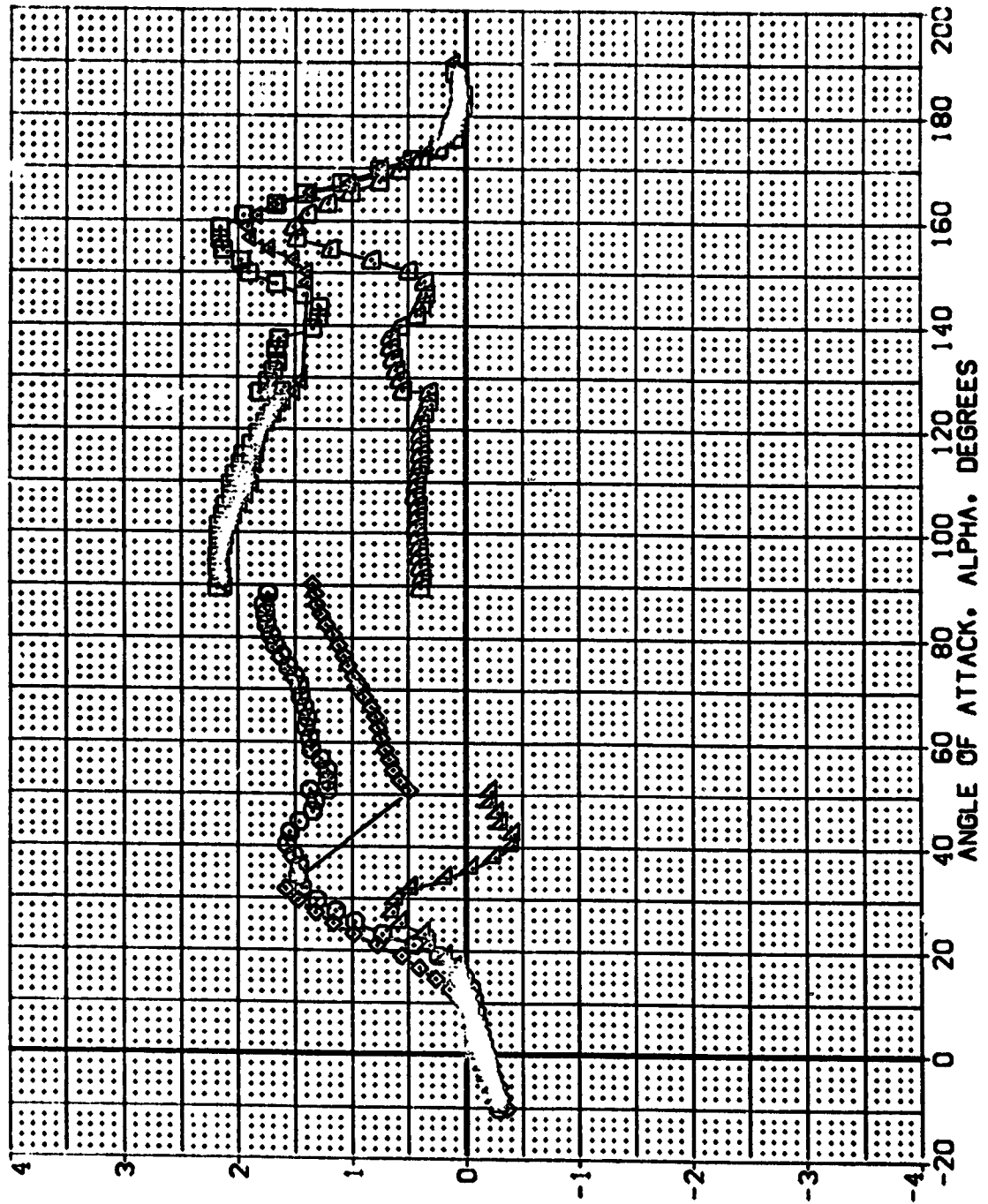
PAGE 151



REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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[RSTAC1]	MS C 587 (FA4)	.000	.000	YMRP .0000
[RSTAC2]	MS C 587 (FA4)	.000	.000	ZMRP .0000
				SCALE .0074

MISSILE AXIS SIDE FORCE COEFFICIENT, CYM



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(C)MACH = 1.20

PAGE 153



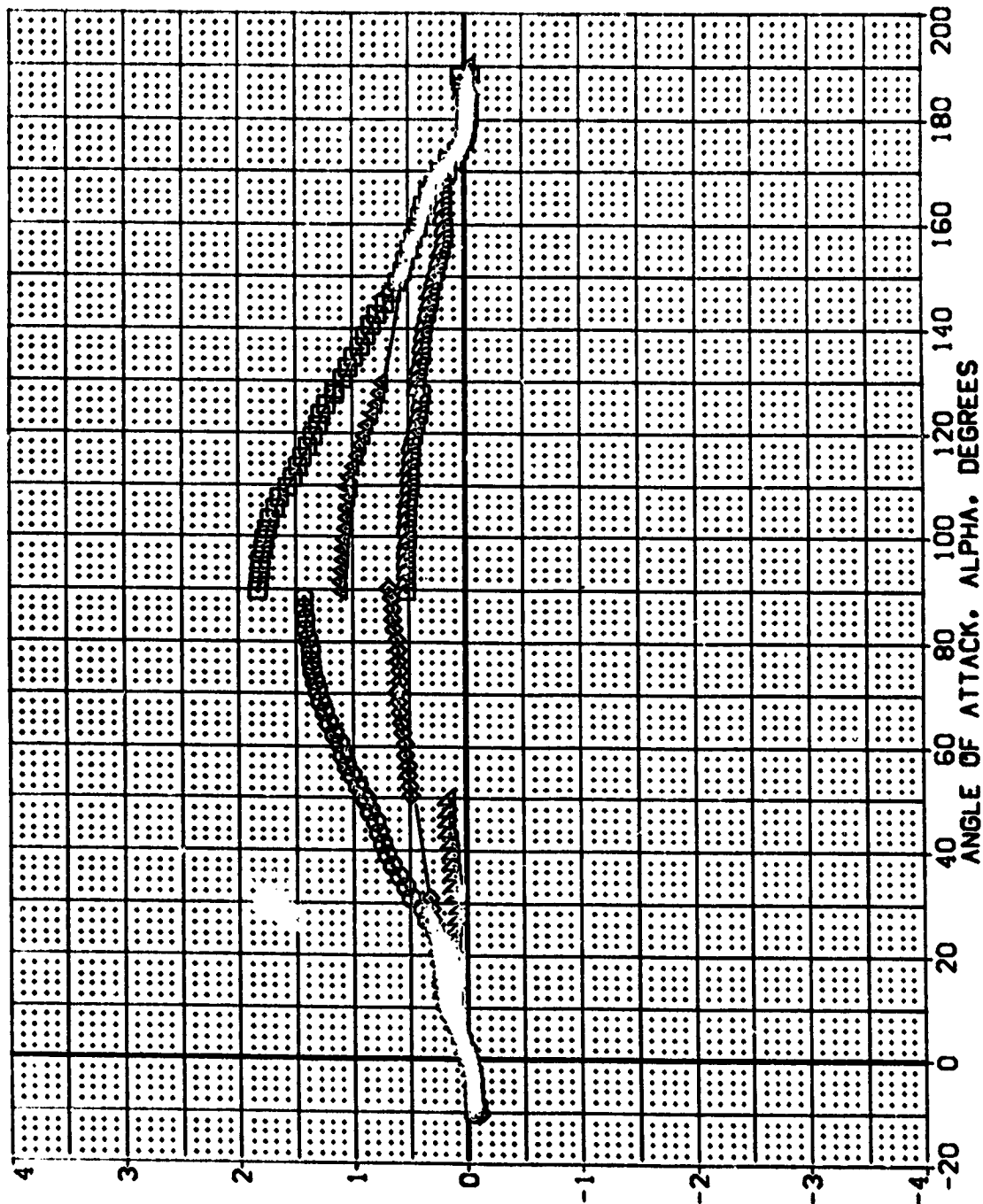
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YMRP .0000 IN  
ZMRP .0000 IN  
SCALE .0074

BETA PHI  
.000 315.000  
.000 315.000  
.000 357.500  
.000 357.500  
.000 .000  
.000 .000

DATA SET SYMBL. CONFIGURATION DESCRIPTION  
S87(A4) TITAN III SRM (NBETP)  
S87(A4) TITAN III SRM (NBETP)  
S87(A4) TITAN III SRM (NBETP)  
S87(A4) TITAN III SRM (NBETP)  
S87(A4) TITAN III SRM (NBETP)  
S87(A4) TITAN III SRM (NBETP)

MISSILE AXIS SIDE FORCE COEFFICIENT, CYM



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(E)MACH = 3.48

PAGE 155

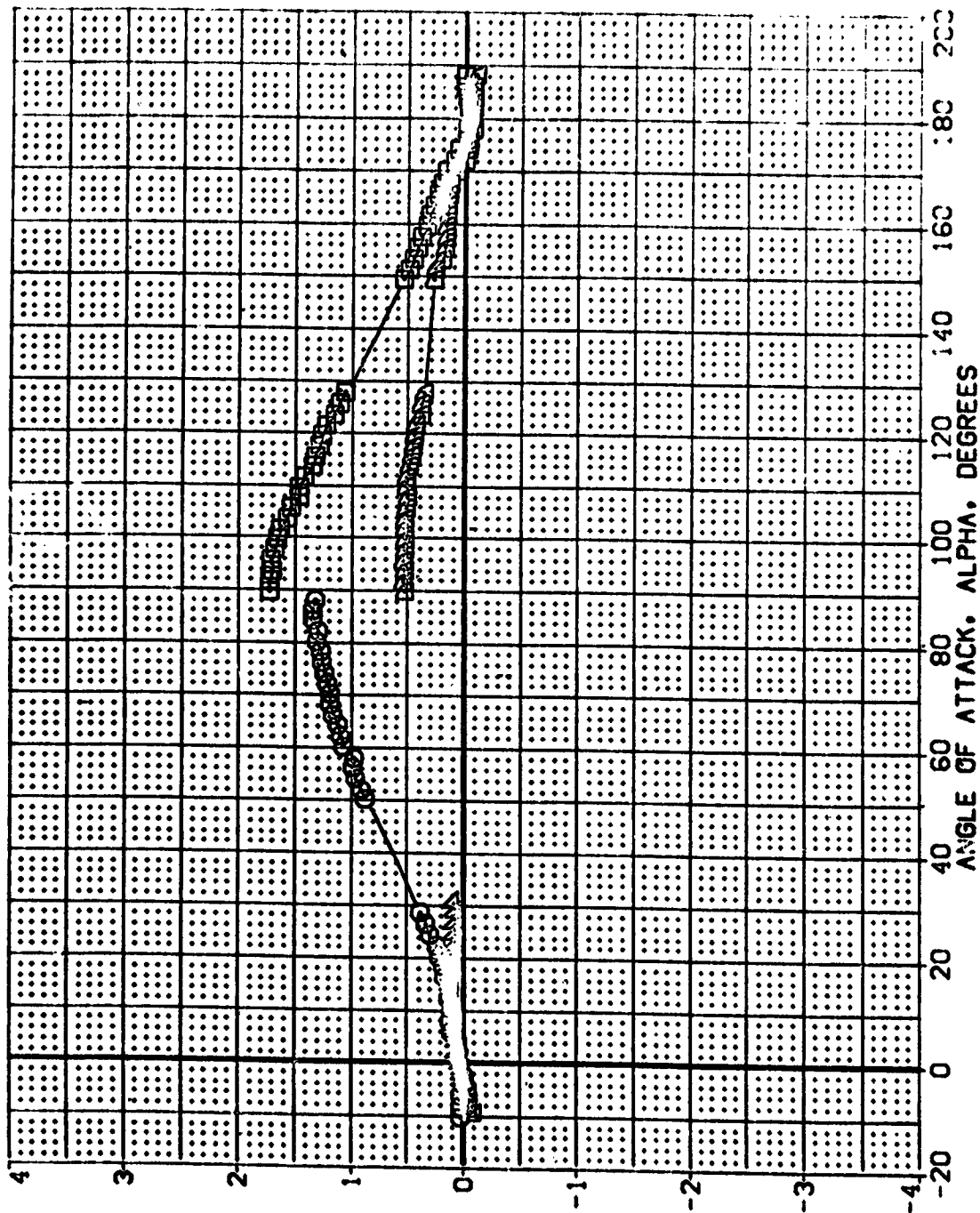
# MISSILE AXIS SIDE FORCE COEFFICIENT, C<sub>YM</sub>

DATA SET SYMBOL  
 01840

CONFIGURATION DESCRIPTION  
 MSFC 587(F4) TITAN III C SRM (NBETP)  
 MSFC 587(F4) TITAN III C SRM (NBETP)  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 MSFC 587(F4) TITAN III C SRM (NBETP)  
 MSFC 587(F4) TITAN III C SRM (NBETP)

BETA PHI  
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 .000 315.000  
 .000 315.000  
 .000 315.000  
 .000 315.000  
 .000 315.000

REFERENCE INFORMATION  
 SREF 5350 SQ. IN  
 LREF 5000 IN.  
 BREF 5000 IN.  
 XMRP 4.6330 IN.  
 YMRP 0.0000 IN.  
 ZMRP 0.0000 IN.  
 SCALE 0.074



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(F)MACH = 4.96

PAGE :56



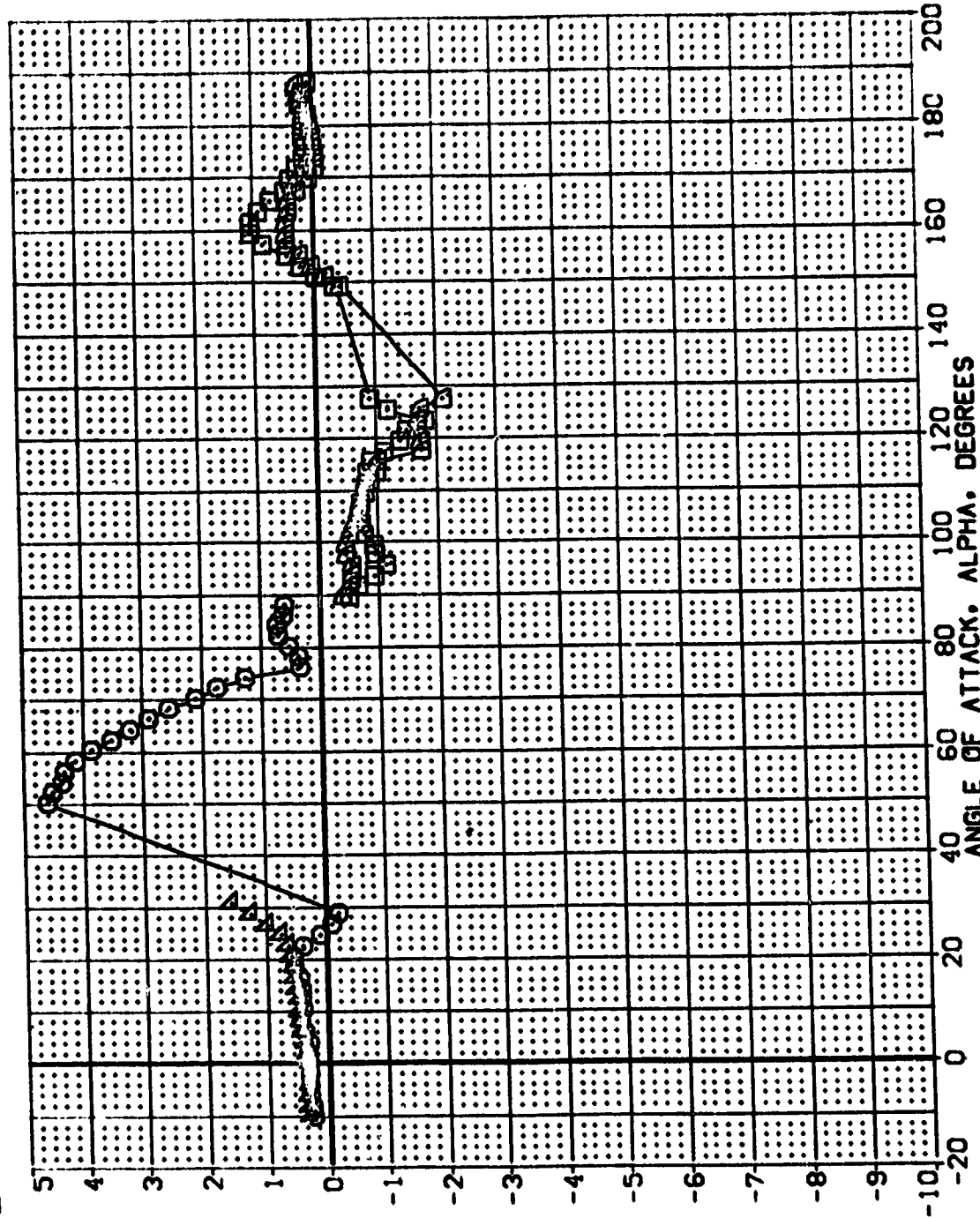
REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
SREF 6360  
LREF 8000  
BREF 8000  
XMRP 4.6330  
YMRP 0.0000  
ZMRP 0.0000  
SCALE 0074

BETA RM1  
000 315.000  
000 315.000  
000 337.500  
000 337.500  
000 0.000  
000 0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
[R7A05] MS C 587(F4) TITAN III C SRM (NBETP)  
[R7A06] MS C 587(F4) TITAN III C SRM (NBETP)  
[R7A07] DATA NOT AVAILABLE  
[R7A08] DATA NOT AVAILABLE  
[R7A09] MS C 587(F4) TITAN III C SRM (NBETP)  
[R7A10] MS C 587(F4) TITAN III C SRM (NBETP)

MISSILE AXIS WING MOMENT COEFFICIENT, C<sub>YMW</sub>



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(A)MACH = .60  
PAGE 157



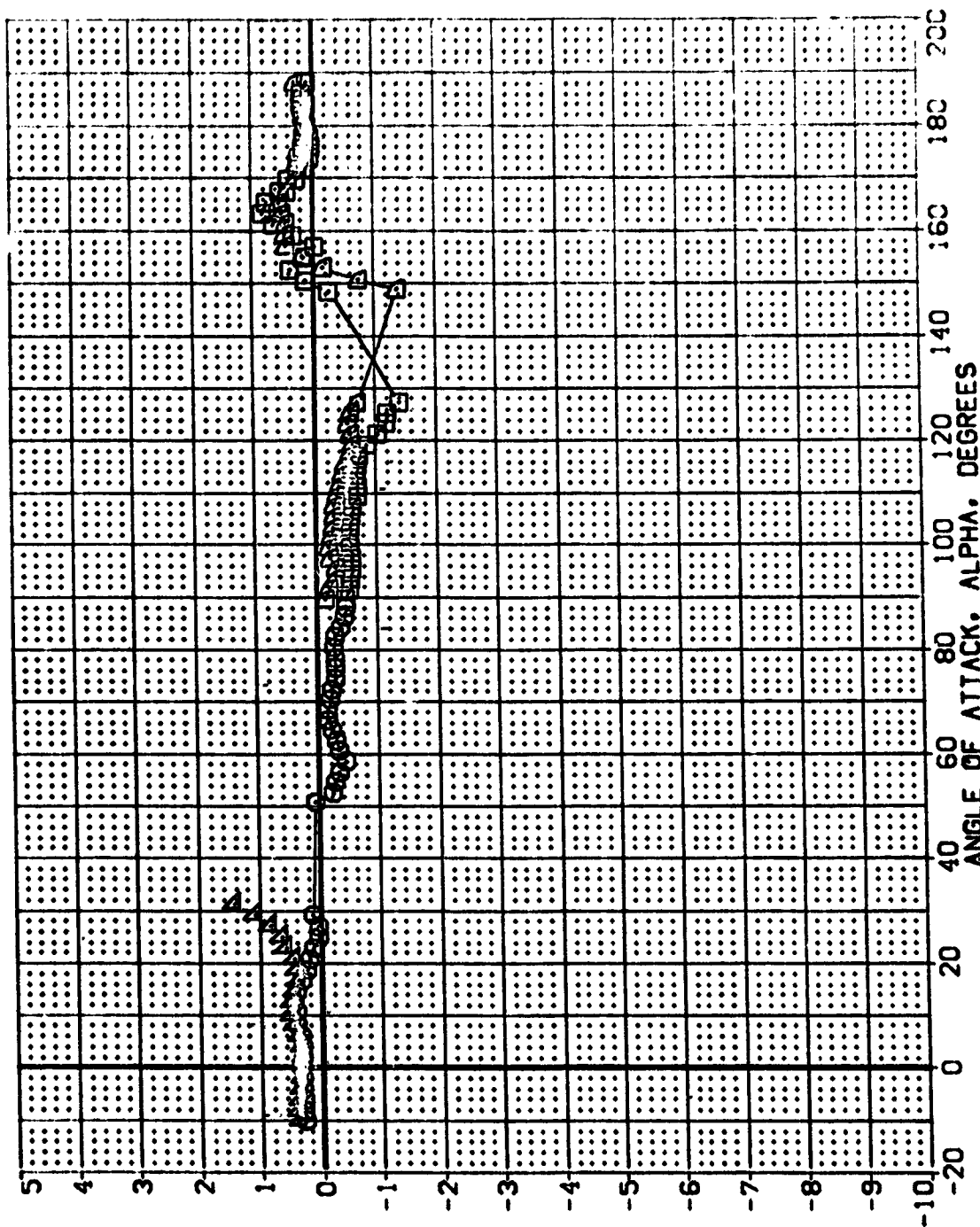
MISSILE AXIS YAWING MOMENT COEFFICIENT, C<sub>YM</sub>

DATA SET SYMBOL  
[P87A01]  
[P87A02]  
[P87A03]  
[P87A04]  
[P87A05]  
[P87A06]

CONFIGURATION DESCRIPTION  
M5C 587(F44) TITAN III C SRH (NBETP)  
M5C 587(F44) TITAN III C SRH (NBETP)  
DATA NOT AVAILABLE  
DATA NOT AVAILABLE  
M5C 587(F44) TITAN III C SRH (NBETP)  
M5C 587(F44) TITAN III C SRH (NBETP)

BETA PH  
.000 315.000  
.000 315.000  
.000 337.500  
.000 337.500  
.000 .000  
.000 .000

REFERENCE INFORMATION  
SREF 5350  
LREF 5000  
BREF 5000  
XMRP 4.6330  
YMRP 0.0000  
ZMRP 0.0000  
SCALE 0.074



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MACH = .90

PAGE :58

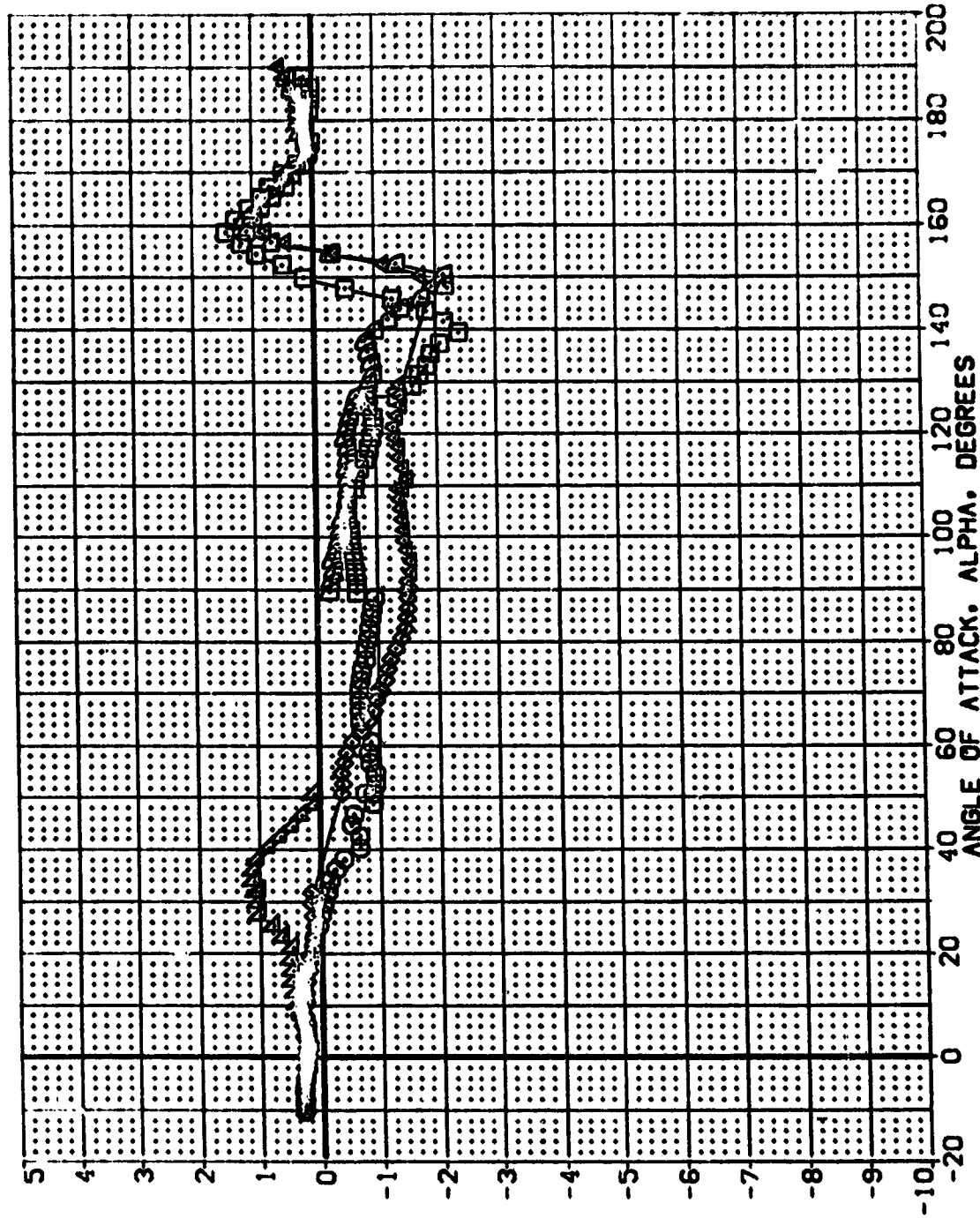


REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
SREF 0360  
LREF 0000  
BREF 0000  
YREF 0000  
ZREF 0000  
SCALE 0074

BETA PH  
000 315.000  
000 315.000  
000 327.500  
000 327.500  
000 327.500  
000 327.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
R57A01 SC 587(F44) TITAN III SCN (NBE TP)  
R57A02 SC 587(F44) TITAN III SCN (NBE TP)  
R57A03 SC 587(F44) TITAN III SCN (NBE TP)  
R57A04 SC 587(F44) TITAN III SCN (NBE TP)  
R57A05 SC 587(F44) TITAN III SCN (NBE TP)  
R57A06 SC 587(F44) TITAN III SCN (NBE TP)



MISSILE AXIS YAWING MOMENT COEFFICIENT, C<sub>YM</sub>

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBE TP)

(CJ)MACH = 1.20

PAGE 59

REFERENCE INFORMATION

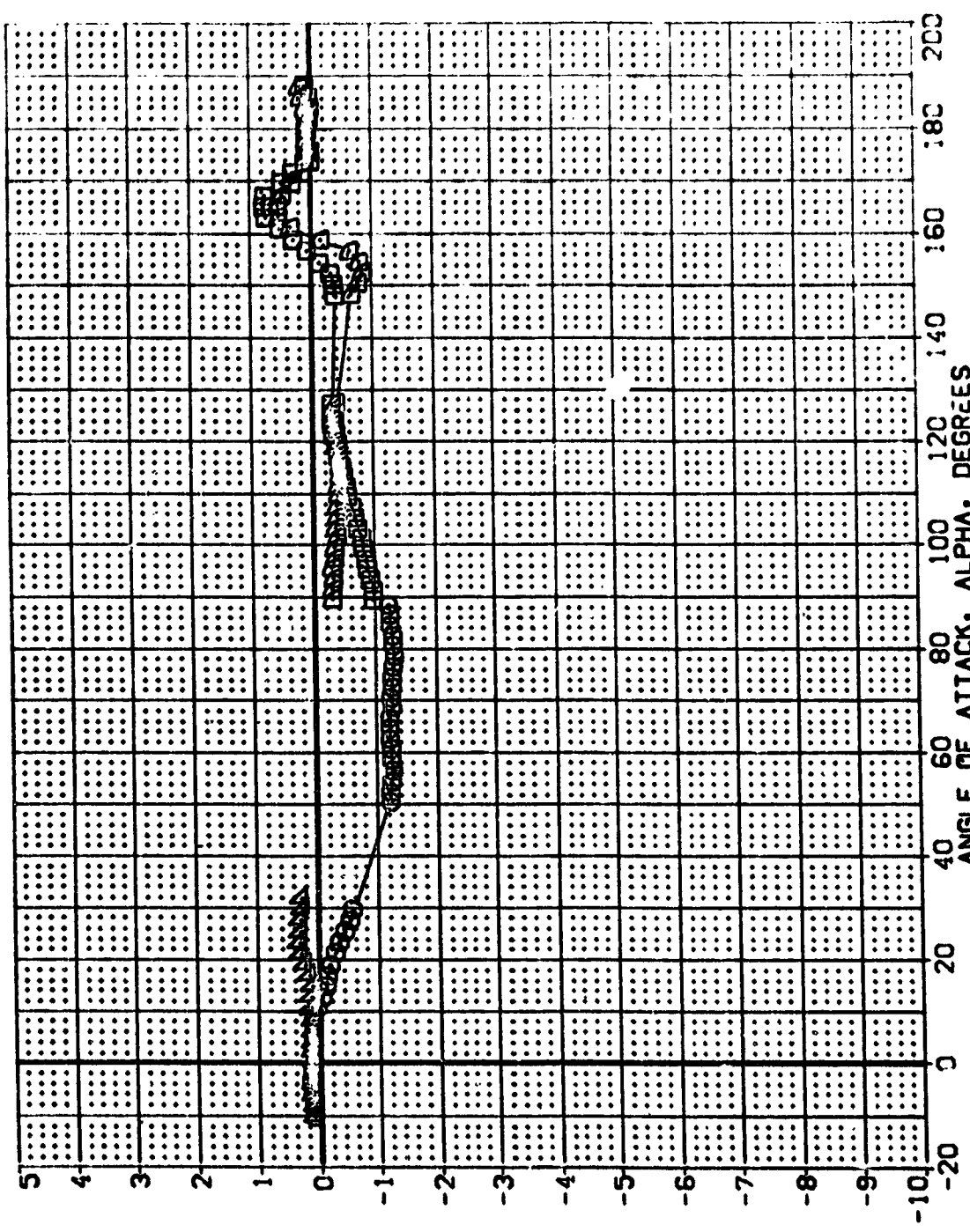
SREF 6360  
 LREF 5000  
 BREF 5000  
 XREF 4.633C  
 YREF 5000  
 ZREF 5000  
 SCALE 1074

BETA PAI

000 315.000  
 000 315.000  
 000 315.000  
 000 397.500  
 000 397.500  
 000 397.500  
 000 397.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION

MSC 587(FA4) TITAN III C SRM (NBETP)  
 MSC 587(FA4) TITAN III C SRM (NBETP)  
 MSC 587(FA4) TITAN III C SRM (NBETP)  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 MSC 587(FA4) TITAN III C SRM (NBETP)  
 MSC 587(FA4) TITAN III C SRM (NBETP)



MISSILE AXIS YAWING MOMENT COEFFICIENT, CYM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)







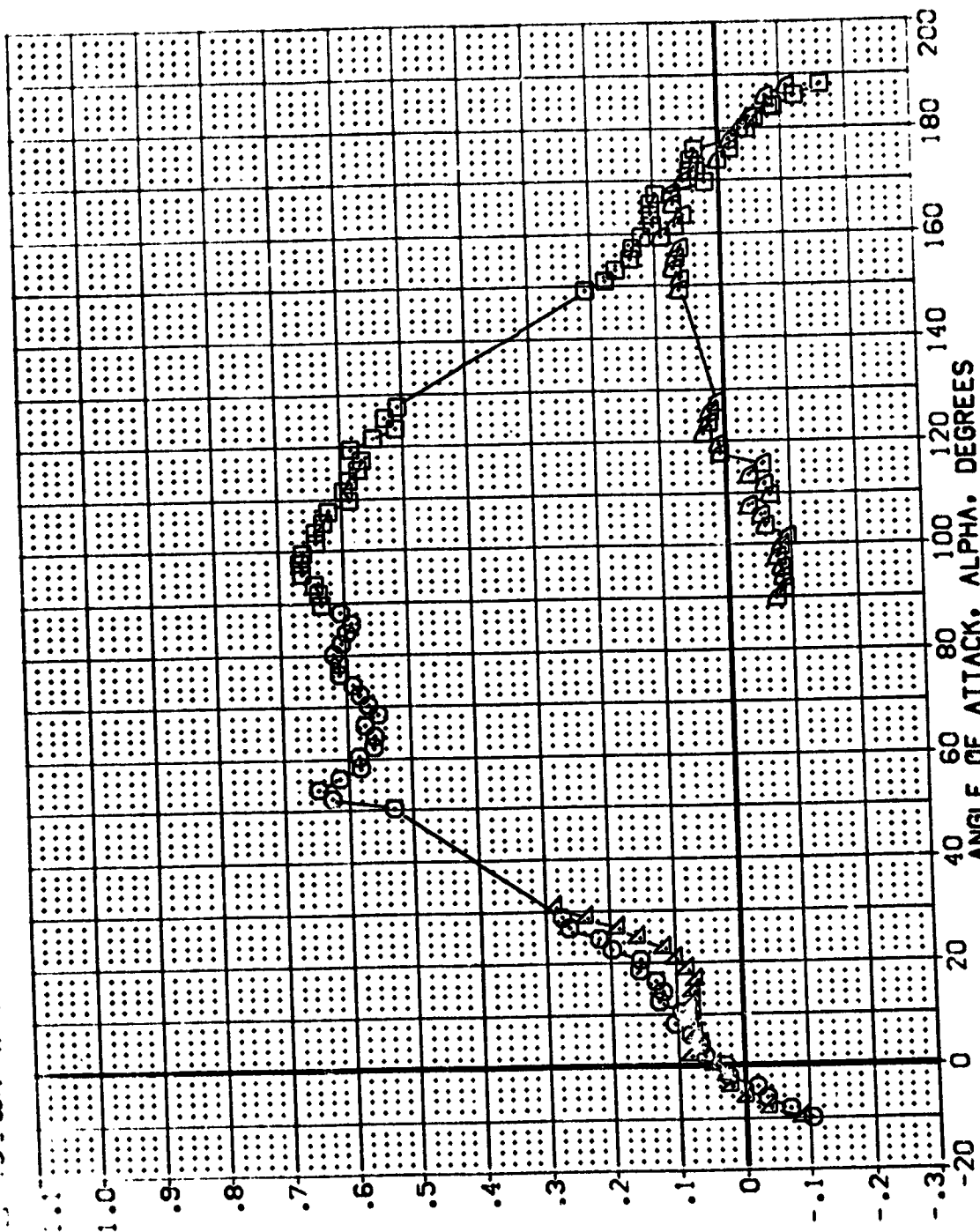
REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

REFERENCE INFORMATION  
SREF .6360  
LREF .9000  
BREF .9000  
XREF .6330  
YREF .0000  
ZREF .0000  
SCALE .0074

BETA PH1  
.000 315.000  
.000 315.000  
.000 337.500  
.000 337.500  
.000 .000  
.000 .000

DATA SET SYMCL CONFIGURATION DESCRIPTION  
587-1-A1 TITAN III C SRM (NBETP)  
587-2-A1 TITAN III C SRM (NBETP)  
587-3-A1 TITAN III C SRM (NBETP)  
587-4-A1 TITAN III C SRM (NBETP)  
587-5-A1 TITAN III C SRM (NBETP)  
587-6-A1 TITAN III C SRM (NBETP)  
587-7-A1 TITAN III C SRM (NBETP)  
587-8-A1 TITAN III C SRM (NBETP)  
587-9-A1 TITAN III C SRM (NBETP)  
587-10-A1 TITAN III C SRM (NBETP)

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

PAGE : 63

(A)MACH = .60





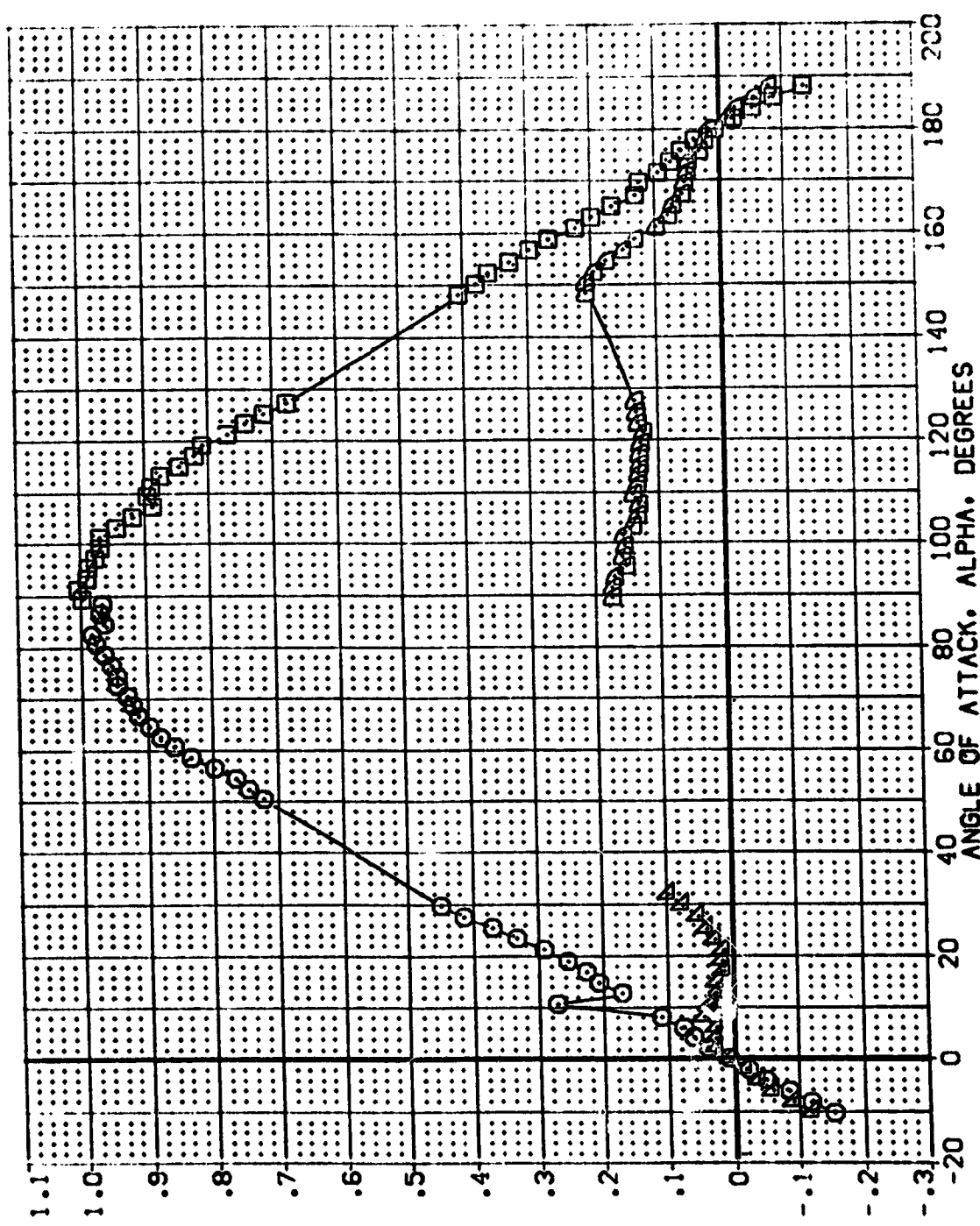


REFERENCE INFORMATION  
SREF .6360  
LREF .5000  
BREF .5000  
XMRP 4.6330  
YMRP .0000  
ZMRP .0000  
SCALE .0074

BETA PHI  
.000 315.000  
.000 315.000  
.000 337.500  
.000 337.500  
.000 337.500  
.000 .000

DATA SET SYMB. CONFIGURATION DESCRIPTION  
MS C 587(F4) TITAN III C SRH (NBETP)  
MS C 587(F4) TITAN III C SRH (NBETP)  
DATA NOT AVAILABLE  
MS C 587(F4) TITAN III C SRH (NBETP)  
MS C 587(F4) TITAN III C SRH (NBETP)

ROLLING MOMENT COEFFICIENT, CRL (BODY AXIS)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)





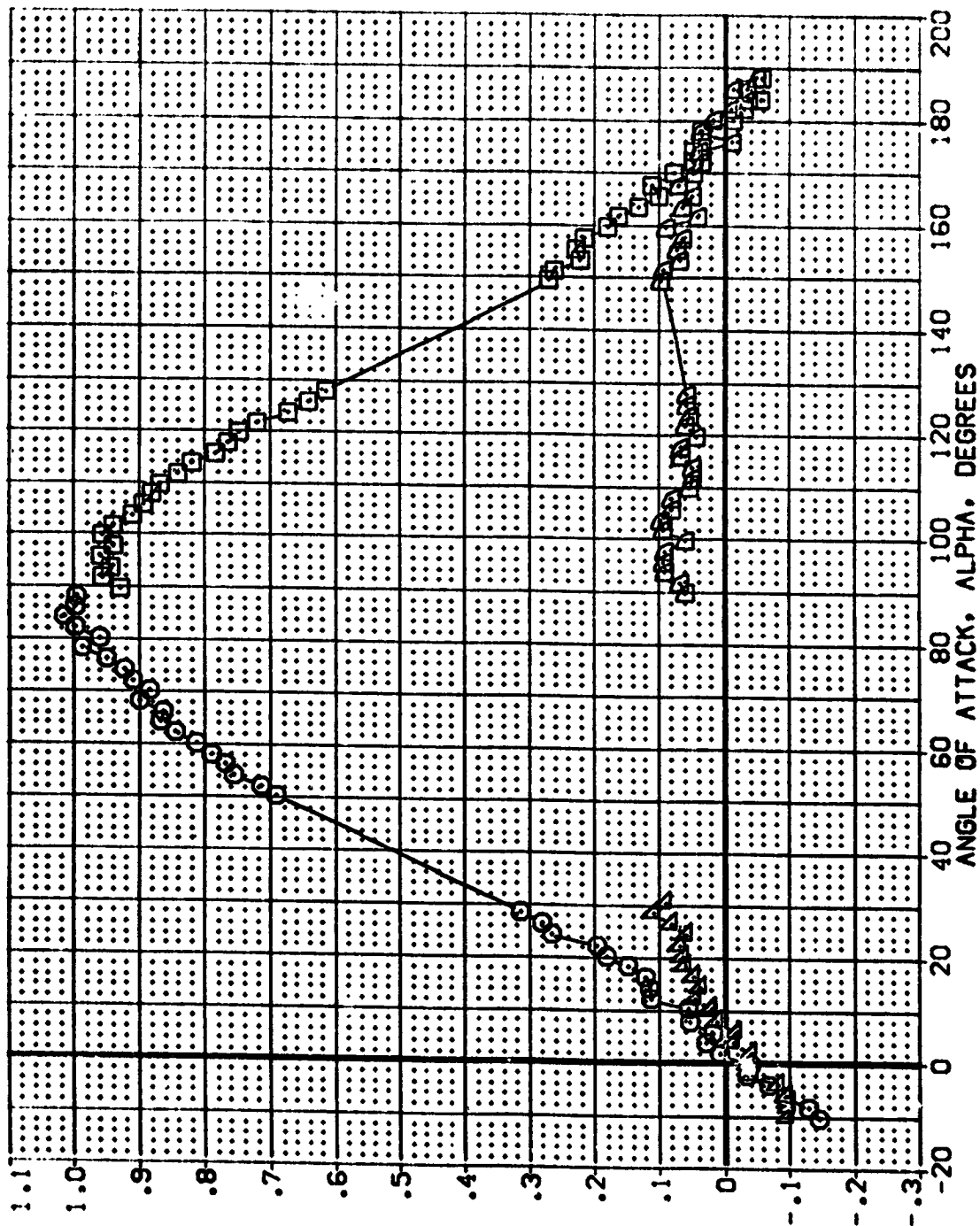


DATA SET SYMBOL: 157AC2  
CONFIGURATION DESCRIPTION: MSFC 587(FA4) TITAN III C SRM (NBETP)  
157AC3: MSFC 587(FA4) TITAN III C SRM (NBETP)  
157AC4: DATA NOT AVAILABLE  
157AC1: DATA NOT AVAILABLE  
157AC2: MSFC 587(FA4) TITAN III C SRM (NBETP)

BETA PHI  
.000 315.000  
.000 315.000  
.000 317.500  
.000 317.500  
.000 317.500  
.000 317.500  
SCALE

REFERENCE INFORMATION  
SRF 6360  
LREF 9000  
BREF 9000  
XMRP 4.6330  
YMRP 0.0000  
ZMRP 0.0000  
SCALE 0.074

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(F)MACH = 4.96

## APPENDIX

### TABULATED SOURCE DATA

Tabulations of plotted data are available on request from Data Management Services.

# REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

PAGE 1

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 587

NSFC 507 (PA4) TITAN III C SRM (MBETP)

(R97001) ( 23 APR 74 )

## REFERENCE DATA

SREF = .5308 30. IN XMRP = 4.0330 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 BREF = .9508 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 133/ 0 RM/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CIN	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.994	-10.010	-61610	-1.56500	-3.0060	.30200	-.09070	.61480	.09060	.32900	-.09060	-.52400
.994	-8.030	-44920	-1.29900	-.27910	.34400	-.04160	.61420	.07400	.28550	-.07400	.53940
.994	-6.090	-32620	-1.06800	-.26040	.33200	-.00440	.56750	.07020	.23600	-.07020	.51720
.994	-4.060	-.20320	-.79600	-.23320	.30470	.01610	.57090	.06210	.16010	-.06210	.50070
.994	-2.060	-.10450	-.54300	-.22050	.26610	.02470	.55220	.06060	-.00940	-.06060	.49150
.994	-.020	.03600	-.23810	-.19940	.31030	.04260	.54410	.06160	1.46930	-.06160	.48250
.994	1.990	.15950	.18830	-.19220	.35100	.07900	.55370	.06670	.50210	-.06670	.48700
.994	4.000	.24050	.40440	-.18360	.37990	.06220	.56340	.07400	.43850	-.07400	.48050
.994	6.030	.36270	.73320	-.17510	.42850	.07060	.57980	.08840	.40900	-.08840	.49120
.994	8.040	.50370	.94070	-.12670	.44290	.07690	.58810	.10700	.41510	-.10700	.48110
.994	9.940	.64330	1.20330	-.08790	.45840	.07240	.60480	.11950	.41470	-.11950	.48520
.994	-.020	.01800	-.10630	-.21990	.38460	.03990	.55270	.06310	1.95440	-.06310	.48950
.994		.05727	.15551	.00672	.01166	.00707	-.00067	.00156	.05334	-.00156	-.00223

RUN NO. 134/ 0 RM/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CIN	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.999	-10.080	-.59240	-1.67410	-.21400	.36780	-.08060	.79970	.08900	.29380	-.08900	.71060
.999	-8.150	-.43970	-1.38060	-.19820	.41010	-.04800	.79150	.07690	.25410	-.07690	.71450
.999	-6.130	-.28210	-1.06810	-.20590	.37400	-.03360	.77140	.06840	.18330	-.06840	.70290
.999	-4.080	-.16290	-.76740	-.21040	.35060	-.00890	.75650	.06360	.05920	-.06360	.69470
.999	-2.050	-.04450	-.16960	-.19600	.33980	.00450	.73440	.06060	-.68270	-.06060	.69370
.999	-.020	.07320	-.18450	-.17590	.31410	.01240	.74260	.06640	.97050	-.06640	.67620
.999	2.000	.20330	.08330	-.15960	.30290	.01820	.73700	.06970	.59960	-.06970	.68720
.999	4.030	.32170	.40600	-.14580	.33390	.01890	.75530	.07540	.49170	-.07540	.67980
.999	6.080	.45100	.67370	-.12370	.37620	.01220	.76250	.08290	.46280	-.08290	.67960
.999	8.100	.59720	.97500	-.06520	.43610	.02660	.77640	.10190	.44480	-.10190	.67440
.999	10.050	.74400	1.28320	-.02100	.50040	.02300	.76250	.11800	.43340	-.11800	.66560
.999	-.010	.09570	-.15130	-.17440	.29080	.00370	.75810	.06740	.85140	-.06740	.69070
.999		.06003	.14506	.00837	-.00347	.00342	-.00019	.00159	.10636	-.00159	-.00179

DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 567

PAGE 2

NSPC 507(744) TITAN III C ARM (HNETP)

(197-01) ( 23 APR 74 )

## REFERENCE DATA

REF : -0360 20. IN XMRP = 4.6336 IN.  
 LREF : -0000 IN. YMRP = .0000 IN.  
 REF : -0000 IN. ZMRP = .0000 IN.  
 SCALE : .0074

## PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 135/ 0 RM/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPBI	CAF
1.199	-10.130	-70590	-1.77700	-30760	.24560	-.11160	1.19930	.20480	.33290	-.20480	-.99440
1.199	-6.190	-51320	-1.42210	-27610	.27480	-.07220	1.16340	.19390	.30220	-.19390	.98940
1.199	-4.170	-34930	-1.09340	-24680	.23760	-.04010	1.16640	.17990	.29000	-.17990	.98640
1.199	-4.100	-19900	-.72890	-20360	.23980	-.02100	1.14670	.17130	.17850	-.17130	.97330
1.199	-2.090	-.06266	-.49950	-.17390	.20720	.00440	1.12680	.16410	-.27630	-.16410	.96270
1.199	-6.10	.09780	-.11720	-.14410	.19000	.01450	1.11860	.16790	.93310	-.16790	.95070
1.199	2.030	.25000	.24890	-.11940	.20070	.03900	1.13600	.18540	.82570	-.18540	.95250
1.199	4.070	.39240	.52460	-.09350	.19750	.04290	1.15510	.20610	.48230	-.20610	.94890
1.199	6.110	.59470	.82300	-.07610	.22980	.04370	1.16730	.22410	.46320	-.22410	.94320
1.199	8.160	.71710	1.16530	-.06740	.30230	.04500	1.18060	.24240	.44580	-.24240	.93820
1.199	10.130	.90580	1.53440	-.04840	.46320	.02880	1.19910	.26350	.43710	-.26350	.93560
1.199	-.010	.11600	-.09290	-.13450	.20200	.01430	1.12430	.16940	.73280	-.16940	.95480
GRADIENT		.07274	.15723	.01343	-.00445	.00794	.00137	.00445	.06924	-.00445	-.00300

RUN NO. 128/ 1 RM/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPBI	CAF
1.998	-10.230	-.99930	-2.06940	-.16490	.08850	-.12090	.97810	.13390	.36020	-.13390	.84320
1.998	-6.230	-.64690	-1.64260	-.15360	.09730	-.09060	.95920	.12170	.33010	-.12170	.83740
1.998	-4.210	-.43390	-1.23120	-.14610	.10120	-.06040	.91950	.10410	.29230	-.10410	.81530
1.998	-2.070	-.27250	-.85570	-.11950	.11270	-.03910	.91610	.10150	.25410	-.10150	.81450
1.998	-.020	-.11210	-.44570	-.09470	.09140	-.01850	.87760	.09420	.14850	-.09420	.78340
1.998	2.030	.03070	-.06680	-.06080	.09040	.00520	.86370	.09320	.92660	-.09320	.77250
1.998	4.080	.19090	.32400	-.03460	.10630	.02680	.87490	.09400	.43670	-.09400	.78010
1.998	6.140	.33690	.65140	-.01660	.10500	.02640	.88460	.10370	.40680	-.10370	.76080
1.998	8.210	.52100	1.00520	.02300	.11800	.02390	.87810	.11320	.40730	-.11320	.76480
1.998	10.200	.73240	1.43590	.05290	.11350	.04520	.88940	.11500	.40340	-.11500	.77440
1.998	-.010	.97400	1.89380	.08350	.13810	.03730	.90910	.12570	.40540	-.12570	.78330
GRADIENT		.03910	-.04240	-.05740	-.09010	-.00300	.84230	.08960	.78880	-.08960	.73280
		.07416	.18441	.01296	-.00003	.00879	-.00315	.00024	.02894	-.00024	-.00340



DATE 11 JUN 74

TABULATED SOURCE DATA, NSFC TWT 507

PAGE 3

(1897001) ( 23 APR 74 )

NSFC 507 (PA4) TITAN III C SRM (MDETP)

PARAMETRIC DATA

REFERENCE DATA

REF = .0360 IN YMRP = 4.6330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = .000

RUN NO. 1/0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CWM	CLWM	CYM	CYMM	CBL	CA	CAB	KCP/L	CPB1	CAF
3.488	-10.280	-1.01230	-1.07820	-.12260	-.12000	-.12450	.00970	.05300	.41670	-.05300	.79580
3.488	-8.300	-.74740	-1.32620	-.09120	-.05020	-.10530	.78780	.05330	.39300	-.05330	.73450
3.488	-6.230	-.50600	-1.19090	-.07340	-.03430	-.07650	.76380	.04940	.35760	-.04940	.71540
3.488	-4.220	-.32620	-.84760	-.05730	-.03910	-.05400	.73900	.04370	.32480	-.04370	.69330
3.488	-2.100	-.17320	-.50870	-.04000	-.03100	-.04280	.71930	.04200	.28420	-.04200	.67720
3.488	-.150	-.04940	-.14930	-.01930	-.01620	-.01460	.70760	.04050	.26890	-.04050	.66710
3.488	1.800	.12710	.23640	.01430	.03590	.00380	.71490	.04470	.41610	-.04470	.67020
3.488	3.930	.26800	.55140	.03610	.05640	.00930	.71830	.04920	.38910	-.04920	.66910
3.488	5.950	.41700	.80990	.06370	.08660	.01300	.72470	.05390	.36140	-.05390	.67080
3.488	7.990	.61940	1.23230	.09270	.07510	.03160	.73960	.05850	.39560	-.05850	.69130
3.488	9.950	.84940	1.59410	.08900	-.14200	.03290	.74610	.06640	.41400	-.06640	.67960
3.488	11.900	.00180	-.12390	-.01960	-.03760	-.00910	.70900	.05970	9.30360	-.05970	.66920
3.488	13.850	.07315	.17365	.01222	-.00076	.00690	-.00225	.00048	.01282	-.00048	-.00272

RUN NO. 2/0 RM/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CWM	CLWM	CYM	CYMM	CBL	CA	CAB	KCP/L	CPB1	CAF
4.959	-10.140	-.90140	-1.38350	-.11680	-.03020	-.09660	.73180	.02520	.42920	-.02520	.70660
4.959	-8.200	-.67760	-1.32150	-.08970	-.02660	-.10050	.70160	.02640	.40460	-.02640	.67520
4.959	-6.170	-.50790	-1.06890	-.07720	-.03460	-.09520	.66710	.02610	.38510	-.02610	.64090
4.959	-4.170	-.33910	-.75430	-.05150	-.03350	-.08300	.63090	.02430	.36990	-.02430	.60650
4.959	-2.150	-.17230	-.44180	.00360	.03430	-.04380	.63250	.02430	.32720	-.02430	.60820
4.959	-.140	.02620	-.10530	.01560	.04140	-.03720	.61450	.02230	1.15990	-.02230	.59210
4.959	1.870	.10900	.20900	.05260	-.01010	-.03990	.61440	.02350	.40890	-.02350	.59080
4.959	3.900	.22450	.48450	.04840	-.07770	-.01310	.60980	.02350	.37840	-.02350	.59820
4.959	5.890	.39330	.79920	.07420	-.07570	-.01710	.60730	.02450	.39430	-.02450	.59270
4.959	7.910	.59300	1.16720	.05840	-.04410	.01210	.62510	.02700	.40320	-.02700	.59800
4.959	9.890	.76560	1.42250	.06940	-.00990	.02170	.65090	.03010	.41630	-.03010	.62840
4.959	11.840	.02570	-.13640	.01980	-.02710	-.05510	.60600	.02350	1.32090	-.02350	.59250
4.959	13.790	.06906	.15516	.01235	-.00663	.00713	-.00299	-.00012	.00485	.00012	-.00288

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TABULATED SOURCE DATA, NSFC TUT 507

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NSFC 507 (744) TITAN III C 30N (MDETP)

(R97082) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0008 IN. INRP = 4.6330 IN.  
 LREF = .0008 IN. YREF = .0000 IN.  
 ZREF = .0008 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 132/ 0 RM/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CNN	CLNN	CYN	CTNN	CBL	CA	CAB	KCP/L	CP81	CAF
.996	10.520	.09550	1.30340	-.05810	.45190	.07900	.00910	.09260	.41430	-.09260	.51630
.996	12.430	.09550	1.34020	.02960	.46680	.07330	.00930	.09940	.40950	-.09940	.51000
.996	14.430	.09510	1.39340	.09810	.50770	.07270	.01690	.11050	.41270	-.11050	.50640
.996	16.480	1.18680	2.21260	.13450	.53490	.06930	.02260	.12590	.41550	-.12590	.49890
.996	18.500	1.39050	2.49400	.22430	.54140	.06740	.01600	.13910	.42280	-.13910	.47690
.996	20.530	1.63810	2.89690	.33360	.60250	.09690	.01860	.16000	.42770	-.16000	.45910
.996	22.560	1.93790	3.28210	.49090	.64910	.11430	.01160	.17220	.43640	-.17220	.42930
.996	24.600	2.28170	3.63200	.68180	.79970	.15360	.07870	.18500	.44820	-.18500	.39360
.996	26.630	2.64010	4.02900	1.18320	.97590	.18600	.58200	.20590	.45830	-.20590	.37600
.996	28.670	3.00360	4.41800	1.43830	1.24630	.23390	.58300	.23180	.46530	-.23180	.35110
.996	30.630	3.41450	4.84480	1.68820	1.57980	.28350	.57650	.26100	.47190	-.26100	.31340
.996	20.530	1.91700	2.83450	.38490	.63090	.11000	.62110	.14930	.42950	-.14930	.47180
GRADIENT		.13321	.17690	.08764	.04918	.00992	-.00214	.00814	.00328	-.00814	-.01029

RUN NO. 131/ 0 RM/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CNN	CLNN	CYN	CTNN	CBL	CA	CAB	KCP/L	CP81	CAF
.996	10.520	.09860	1.27760	.03110	.46860	.05630	.79670	.09160	.42000	-.09160	.67510
.996	12.520	.07010	1.58980	.09940	.49680	.05900	.77190	.10520	.42020	-.10520	.66660
.996	14.540	1.05440	1.95070	.06070	.44830	.06280	.76260	.12380	.41730	-.12380	.63880
.996	16.610	1.27540	2.40910	-.04340	.38250	.05680	.75350	.14930	.41240	-.14930	.62610
.996	18.690	1.32500	2.88020	-.05230	.39250	.06500	.75240	.16490	.41240	-.16490	.58740
.996	20.730	1.81330	3.41740	-.00200	.45410	.07510	.72420	.17810	.41300	-.17810	.54610
.996	22.790	2.12220	3.98050	.06770	.58130	.08100	.70370	.17840	.41410	-.17840	.52520
.996	24.880	2.43390	4.69570	.19870	.64070	.08740	.66930	.17940	.41320	-.17940	.48980
.996	26.990	2.97640	5.57460	.52600	.62490	.11110	.64930	.16610	.41440	-.16610	.46330
.996	29.080	3.42550	6.30590	.79750	1.07730	.14020	.62830	.20010	.41650	-.20010	.42610
.996	31.090	3.91840	7.05410	.97370	1.40710	.16730	.61960	.21850	.42430	-.21850	.43110
.996	20.740	1.83800	3.47340	-.10760	.41050	.05970	.74360	.17260	.41230	-.17260	.57160
GRADIENT		.15501	.28327	.04209	.03915	.00487	-.00830	.00561	.00004	-.00561	-.01391



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TABULATED SOURCE DATA, NSFC TWT 987

1807002) ( 23 APR 74 )

NSFC 807(PAA) TITAN III C SRM (INSTR)

PARAMETRIC DATA

BETA = .000 PHI = .500

REFERENCE DATA

REF = .0380 IN XIMP = 4.0330 IN.  
LREF = .0000 IN. YIMP = .0000 IN.  
REF = .0000 IN. ZIMP = .0000 IN.  
SCALE = .0074

RUN NO. 138/ 0 RM/L = 0.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
1.202	10.000	.00390	1.50970	-.04120	.35920	.03110	1.16140	.21900	.42300	-.21900	-.94249
1.202	12.620	1.07030	1.97120	.01390	.42940	.04070	1.17430	.23050	.41840	-.23050	.93580
1.202	14.870	1.33570	2.45320	.05410	.46710	.04060	1.18250	.23280	.42090	-.23280	.92970
1.202	16.770	1.61940	2.98990	.07680	.47810	.01760	1.17690	.27190	.41940	-.27190	.90500
1.202	18.850	1.94960	3.31770	.16490	.46190	.01070	1.16420	.17680	.42310	-.27680	.88730
1.202	20.970	2.30980	4.24350	.31000	.46720	.03720	1.15430	.26740	.42770	-.28760	.86680
1.202	23.090	2.64960	5.05410	.34000	.48250	.03590	1.14240	.29130	.42700	-.29130	.83100
1.202	25.230	3.43940	5.91710	.55000	.77650	.04690	1.13220	.31010	.43350	-.31010	.82200
1.202	27.390	4.03770	6.86090	.63020	1.00100	.06950	1.11140	.31940	.43750	-.31940	.79180
1.202	29.530	4.62440	7.67080	.59590	1.02620	.06160	1.04070	.33050	.44150	-.33050	.75810
1.202	31.500	5.17440	8.42780	.48490	1.00890	.09260	1.07030	.34310	.44550	-.34310	.72740
1.202	20.970	2.38950	4.31350	.32020	.46910	.02560	1.12060	.26510	.42260	-.26510	.83550
GRADIENT		.20919	.33595	.03398	.03457	.06237	-.00496	.00592	.00122	-.00352	-.01039

RUN NO. 129/ 0 RM/L = 0.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
1.904	10.730	.96090	1.86930	.07980	.13618	.03290	.90930	.13380	.40520	-.13380	.77540
1.904	12.710	1.23110	2.34510	.11980	.12540	.02540	.92010	.14630	.41420	-.14630	.77370
1.904	14.790	1.59430	2.86400	.11980	.10940	.02370	.94110	.15510	.42400	-.15510	.76800
1.904	16.910	1.97960	3.38050	.06960	.14450	.01390	.93930	.16120	.43530	-.16120	.77810
1.904	19.010	2.41320	3.89990	.06090	.22910	.01520	.94680	.16860	.44710	-.16860	.77810
1.904	21.120	2.84500	.35840	.07030	.28520	.01320	.96730	.17040	.45760	-.17040	.76880
1.904	23.240	3.33990	4.91670	.11480	.31610	.02580	.99280	.18600	.46320	-.18600	.80670
1.904	25.340	3.78490	5.30930	.24460	.29810	.03380	1.00610	.19810	.47390	-.19810	.81000
1.904	27.440	4.25990	5.70800	.22460	.29460	.05090	1.01780	.20330	.48190	-.20330	.81430
1.904	29.540	4.71400	6.04999	.27910	.24620	.07510	1.00710	.21480	.48900	-.21480	.79230
1.904	31.500	5.22986	6.48070	.30000	.27220	.09620	1.02350	.23260	.49460	-.23260	.78090
1.904	21.110	2.67620	4.35020	.07960	.27460	.01960	.95610	.17270	.46010	-.17270	.78340
GRADIENT		.20700	.22252	.01016	.00905	.00285	.00576	.00433	.00440	-.00433	.00143



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TABULATED SOURCE DATA, WSPC TWT 507

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WSPC 507 (FAA) TITAN III C-30M (MBCFP)

(187002) ( 25 APR 74 )

## REFERENCE DATA

REF = -0.000 94. IN XWSP = 4.6330 IN.  
 REF = -0.000 14. IN. YWSP = -0.0000 IN.  
 REF = -0.000 14. IN. ZWSP = -0.0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 4/ 0 RM/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWM	CLWM	CYM	CYH	CBL	CA	CAB	XCP/L	CPH1	CAF
3.400	10.400	.91260	1.62290	.09000	-.10250	.02440	.76240	.06950	.41810	-.06950	.69280
3.400	12.450	1.19350	2.00790	.08810	-.08970	.02830	.76780	.07050	.43010	-.07050	.69730
3.400	14.500	1.46580	2.45690	.08150	-.09030	.02800	.77770	.07110	.43900	-.07110	.70650
3.400	16.550	1.74000	2.83070	.06830	-.08900	.02890	.79640	.07200	.44730	-.07200	.72430
3.400	18.600	2.07520	3.15570	.07110	-.12950	.03570	.81360	.07470	.45900	-.07470	.73890
3.400	20.650	2.41730	3.48550	.10150	-.15160	.05170	.82110	.07460	.46900	-.07460	.74650
3.400	22.730	2.79970	3.81590	.10150	-.16780	.05060	.84240	.07750	.47900	-.07750	.76480
3.400	24.770	3.18390	4.14610	.09820	-.18400	.07450	.86110	.07640	.48670	-.07640	.78470
3.400	26.810	3.58190	4.48650	.09190	-.23280	.08270	.87630	.07320	.49290	-.07320	.80310
3.400	28.890	4.02840	4.81070	.09330	-.24480	.09230	.89760	.07340	.50300	-.07340	.82410
3.400	30.970	4.43600	5.16030	.09590	-.12920	.05470	.91290	.07310	.50420	-.07310	.82980
3.400	20.850	2.41760	3.48490	-.00124	-.00784	.00350	.82980	.07470	.46910	-.07470	.75310
GRADIENT		.17270	.16720			.00350	.00766	.00021	.00431	-.00021	.00746

RUN NO. 3/ 0 RM/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWM	CLWM	CYM	CYH	CBL	CA	CAB	XCP/L	CPH1	CAF
4.959	20.390	2.18170	2.97320	.07940	-.11630	.03500	.76910	.03110	.47740	-.03110	.73800
4.959	10.350	.78400	1.42120	.08350	-.08960	.02070	.67350	.03160	.41600	-.03160	.64390
4.959	12.310	1.02140	1.73990	.08220	-.09350	.04320	.68890	.03010	.43590	-.03010	.65880
4.959	14.320	1.22120	2.07660	.08050	-.08060	.03790	.71420	.03210	.43630	-.03210	.68290
4.959	16.340	1.50730	2.38440	.06600	-.07820	.04840	.72850	.03290	.45130	-.03290	.69360
4.959	18.360	1.79200	2.63240	.07910	-.11730	.05970	.74400	.03230	.46360	-.03230	.71160
4.959	20.380	2.13490	2.89570	.08670	-.09750	.06370	.77260	.03130	.48020	-.03130	.74140
4.959	22.430	2.53400	3.19170	.08740	-.13090	.06940	.81020	.02960	.49210	-.02960	.78050
4.959	24.430	2.93260	3.48210	.06740	-.16290	.05870	.83100	.02780	.50210	-.02780	.80310
4.959	26.440	3.33200	3.73350	.06780	-.19660	.06090	.85330	.02330	.50970	-.02330	.82860
4.959	28.490	3.78840	4.13900	.06870	-.18900	.10850	.89290	.02330	.51320	-.02330	.86930
4.959	30.440	4.18570	4.53260	-.00240	-.17600	.08950	.89220	.02180	.51440	-.02180	.87040
GRADIENT		.17162	.14805	-.00046	-.00570	.00341	.01167	-.00049	.00318	.00049	.01217



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TABULATED SOURCE DATA, NSFC TWT 507

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(R97003) ( 23 APR 74 )

NSFC 987 (14) TITAN III C SRM (HDETPI)

## REFERENCE DATA

REF = .63E-08 IN TMRP = 4.6330 IN.  
 LREF = .9E-09 IN. TMRP = .0000 IN.  
 REF = .9E-09 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 136/ 0 RM/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.195	31.770	5.16820	9.39880	.46900	1.06140	.09390	1.03990	.33930	.44380	-.33930	.70030
1.195	33.770	5.70300	9.09420	.16790	1.10730	.04690	1.02420	.36390	.44970	-.36390	.66020
1.195	35.900	6.33800	9.73680	-.06290	1.09720	.03710	1.00630	.39190	.45710	-.39190	.61440
1.195	38.040	6.98890	10.23760	-.26980	1.02860	.01960	.97030	.41270	.46300	-.41270	.55770
1.195	40.180	7.62800	10.67440	-.41930	.95470	.01730	.93090	.43830	.47110	-.43830	.49280
1.195	42.310	8.22420	11.49830	-.42690	.85020	.02480	.86590	.45320	.47450	-.45320	.43080
1.195	44.430	8.77730	12.06830	-.32870	.79080	.03330	.82090	.42900	.47750	-.42900	.39390
1.195	46.540	9.29800	12.69360	-.28870	.72080	.03110	.74478	.41290	.47878	-.41290	.33180
1.195	48.620	9.79810	13.24070	-.23030	.66390	.04420	.69120	.43660	.48050	-.43660	.25490
1.195	50.730	10.17510	13.90610	-.23360	.60900	.04130	.63370	.48050	.47850	-.48050	.15310
1.195	52.710	10.29510	14.47810	-.22860	.55690	.02630	.60340	.66600	.47350	-.66600	-.06280
1.195	42.310	8.23440	11.47370	-.42720	.55690	.02510	.88700	.44260	.47310	-.44260	.44440
1.195	GRADIENT	.25735	.28507	-.02396	-.08210	-.00140	-.02263	.00953	.00155	-.00953	-.03216

RUN NO. 5/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	30.930	4.49850	5.17990	.06950	-.10970	.07160	.92790	.06980	.50370	-.06980	.65800
3.480	32.930	4.90500	5.58640	.08410	-.24160	.07470	.84040	.06310	.50810	-.06310	.67730
3.480	34.000	5.35100	5.97670	.09000	-.25440	.08790	.94740	.05910	.51010	-.05910	.68820
3.480	37.060	5.77770	6.37510	.10200	-.26270	.10790	.94580	.05490	.51160	-.05490	.69090
3.480	39.130	6.22970	6.76660	.10780	-.30280	.11150	.95030	.05280	.51400	-.05280	.69740
3.480	41.150	6.66200	7.14870	.12060	-.30970	.10960	.94970	.05170	.51570	-.05170	.69800
3.480	43.270	7.14920	7.55970	.14000	-.30620	.13360	.94500	.04780	.51760	-.04780	.69710
3.480	45.330	7.57790	7.88930	.14680	-.33770	.13060	.91930	.03560	.52000	-.03560	.68370
3.480	47.370	8.02490	8.24820	.14080	-.35230	.14930	.90930	.02770	.52140	-.02770	.68160
3.480	49.450	8.45770	8.60340	.14720	-.37730	.14680	.87820	.02080	.52270	-.02080	.67400
3.480	51.430	8.85300	8.90280	.14710	-.42110	.15090	.86300	.01810	.52420	-.01810	.64480
3.480	41.190	6.66310	7.12140	.11480	-.38130	.13720	.95250	.05030	.51620	-.05030	.90210
3.480	GRADIENT	.21443	.18285	.00369	-.00948	.00414	-.00329	-.00250	.00091	.00250	-.00079

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TABULATED SOURCE DATA, NSPC TWT 507

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NSPC 997 (F44) TITAN III C 3RM (MBETP)

(1897008) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 30. IN XMRP = 4.6330 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 BREF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .008 PHI = .000

RUN NO. 243/ 0 RM/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNW	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.000	109.020	0.94670	-1.1450	-2.3020	-7.4020	-.03610	-.21330	.00000	.65410	.00000	-.21330
.000	107.710	7.01930	.26910	-2.3470	-7.1160	-.03490	-.14660	.00000	.64660	.00000	-.14660
.000	105.720	7.19030	.19440	-.27400	-.65860	-.05240	-.06340	.00000	.63920	.00000	-.06340
.000	103.730	7.21930	1.13120	-.31320	-.57960	-.06000	.01840	.00000	.63130	.00000	.01840
.000	101.740	7.29030	1.64920	-.38270	-.32930	-.09370	.09750	.00000	.62280	.00000	.09750
.000	99.750	7.32940	2.17790	-.44300	-.44990	-.08360	.18070	.00000	.61390	.00000	.18070
.000	97.760	7.36370	2.63620	-.46860	-.46110	-.07720	.29140	.00000	.60620	.00000	.29140
.000	95.770	7.40710	3.02350	-.46340	-.33380	-.08370	.39557	.00000	.59980	.00000	.39550
.000	93.780	7.44600	3.41920	-.43840	-.34030	-.08480	.49040	.00000	.59340	.00000	.49040
.000	91.790	7.48990	3.75080	-.39640	-.49590	-.08600	.56790	.00000	.58780	.00000	.56790
.000	89.810	7.41900	4.19210	-.42490	-.37670	-.07410	.52990	.00000	.57990	.00000	.52990
.000	99.750	7.33010	2.15560	-.43150	-.48650	-.08290	.17960	.00000	.61430	.00000	.17960
GRADIENT		-.02497	-.22252	.01130	-.01402	.00240	-.04214	.00000	.00378	.00000	-.04214

RUN NO. 244/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNW	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.002	109.450	9.10190	1.74220	.12250	-.26970	-.03160	-.19850	.00000	.62720	.00000	-.19850
.002	107.540	9.23650	2.20470	.08610	-.30100	-.03430	-.08440	.00000	.62130	.00000	-.08440
.002	105.580	9.35920	2.69590	.07310	-.29370	-.04600	.02440	.00000	.61510	.00000	.02440
.002	103.580	9.43950	3.19010	.06550	-.27760	-.05590	.11410	.00000	.60870	.00000	.11410
.002	101.600	9.56330	3.68210	.06380	-.25770	-.05920	.22100	.00000	.60270	.00000	.22100
.002	99.610	9.70090	4.16330	.03600	-.21320	-.08440	.32880	.00000	.59720	.00000	.32880
.002	97.630	9.84120	4.65970	.02340	-.22510	-.03780	.42000	.00000	.59150	.00000	.42000
.002	95.650	9.98490	5.21890	.03200	-.31630	-.05830	.47280	.00000	.58510	.00000	.47280
.002	93.670	10.11170	5.82970	.01120	-.30080	-.05130	.48370	.00000	.57850	.00000	.48370
.002	91.690	10.13030	6.35990	-.04720	-.20260	-.06130	.43390	.00000	.57200	.00000	.43390
.002	89.820	10.19640	6.95450	-.06920	-.14790	-.05760	.40430	.00000	.56520	.00000	.40430
.002	99.610	9.75930	4.20970	.04340	-.22190	-.08000	.33000	.00000	.59690	.00000	.33000
GRADIENT		-.05624	-.26326	.00421	-.00476	.00036	-.03402	.00000	.00311	.00000	-.03402



TABULATED SOURCE DATA, NSFC TWT 507

10970001 ( 23 APR 74 )

NSFC 507 (PA4) TITAN III C 88M (HDETP)

PARAMETRIC DATA

BETA = .000 PHI = .000

REFERENCE DATA

NSFC = .0340 IN. L-RP = 4.0330 IN.  
 LREF = .9030 IN. YREF = .0000 IN.  
 BREF = .9000 IN. ZREF = .0000 IN.  
 SCALE = .0074

RUN NO. 243/ 0 RM/L = 0.72 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.193	109.300	11.73340	5.02140	.44200	-.49330	.07560	-.50790	.00000	.59730	.00000	-.50790
1.193	107.470	11.92920	5.40240	.43630	-.50340	.08460	-.59720	.00000	.59420	.00000	-.59720
1.193	105.480	12.11430	5.78000	.42210	-.47140	.08230	-.28240	.00000	.59110	.00000	-.28240
1.193	103.490	12.27830	6.14860	.42050	-.41470	.07610	-.16430	.00000	.58810	.00000	-.16430
1.193	101.510	12.49660	6.74950	.42680	-.38460	.06700	-.06180	.00000	.58310	.00000	-.06180
1.193	99.530	12.63430	7.17370	.41560	-.35410	.07630	.04680	.00000	.57940	.00000	.04680
1.193	97.560	12.77030	7.63120	.41000	-.31340	.08330	.14790	.00000	.57390	.00000	.14790
1.193	95.590	12.84740	8.36160	.40910	-.24400	.07760	.23130	.00000	.56890	.00000	.23130
1.193	93.600	12.99450	8.85620	.39420	-.28240	.07560	.31600	.00000	.56320	.00000	.31600
1.193	91.630	13.07640	9.32630	.36650	-.23360	.07900	.36450	.00000	.56120	.00000	.36450
1.193	89.750	13.21480	9.85610	.35780	-.21520	.06970	.44120	.00000	.55710	.00000	.44120
1.193	87.930	12.62860	7.21210	.41350	-.35810	.08660	.04400	.00000	.57920	.00000	.04400
GRADIENT		-.07402	-.25207	.00256	-.01623	-.00010	-.04921	.00000	.00211	.00000	-.04921

RUN NO. 263/ 0 RM/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.962	109.440	11.65910	7.03830	.48810	-.40170	.12500	-.48850	.00000	.57510	.00000	-.48850
1.962	107.570	11.87570	7.35500	.49190	-.37580	.13150	-.38000	.00000	.57310	.00000	-.38000
1.962	105.530	12.12300	7.68010	.49790	-.37840	.13290	-.27610	.00000	.57130	.00000	-.27610
1.962	103.960	12.34110	8.05220	.50480	-.35470	.14140	-.17770	.00000	.56890	.00000	-.17770
1.962	101.570	12.59810	8.42710	.50740	-.38280	.15660	-.07730	.00000	.56680	.00000	-.07730
1.962	99.580	12.69700	8.89230	.51580	-.34540	.15460	.01610	.00000	.56480	.00000	.01610
1.962	97.590	12.76750	9.38100	.52450	-.33070	.15960	.09930	.00000	.56260	.00000	.09930
1.962	95.580	12.91960	9.30460	.52670	-.29190	.15260	.17730	.00000	.56030	.00000	.17730
1.962	93.610	13.07330	9.64690	.52980	-.31390	.17090	.25960	.00000	.55810	.00000	.25960
1.962	91.600	13.15830	9.89930	.53750	-.29390	.17510	.33430	.00000	.55630	.00000	.33430
1.962	89.730	13.24390	10.14310	.55980	-.29330	.17430	.40270	.00000	.55450	.00000	.40270
1.962	87.930	12.60880	6.86800	.50980	-.36460	.15130	.01370	.00000	.56460	.00000	.01370
GRADIENT		-.07909	-.19884	-.00273	-.00369	-.00258	-.04493	.00000	.00106	.00000	-.04493

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

( 23 APR 74 )

MSPC 507 (744) TITAN 111 C 80N (MSTP)

PARAMETRIC DATA

REFERENCE DATA

REF = .0360 IN. XREF = 4.6338 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 ZREF = .0000 IN. XREF = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = .000

RUN NO. 264/ 0 RM/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.408	109.500	11.12000	6.77230	.49200	-.54500	.11800	-.39790	.00000	.57450	.00000	-.39790
3.408	107.700	11.37100	7.13330	.50750	-.55700	.12950	-.30200	.00000	.57210	.00000	-.30200
3.408	105.800	11.61450	7.48020	.51640	-.57200	.13330	-.20940	.00000	.57000	.00000	-.20940
3.400	103.600	11.85100	7.85120	.51150	-.58600	.13790	-.13100	.00000	.56760	.00000	-.13100
3.400	101.700	12.05570	8.20670	.50810	-.59900	.13300	-.04200	.00000	.56530	.00000	-.04200
3.400	99.700	12.23770	8.56510	.51400	-.61400	.13490	.03290	.00000	.56290	.00000	.03290
3.400	97.710	12.39110	8.92280	.52330	-.63100	.13090	.11100	.00000	.56110	.00000	.11100
3.400	95.720	12.51040	9.11200	.52610	-.64600	.12660	.18920	.00000	.55930	.00000	.18920
3.400	93.720	12.64500	9.35800	.52890	-.66000	.12000	.25900	.00000	.55760	.00000	.25900
3.400	91.710	12.72140	9.63310	.52920	-.67200	.11310	.36870	.00000	.55560	.00000	.36870
3.400	89.830	12.78930	9.84650	.52920	-.68200	.10340	.42900	.00000	.55400	.00000	.42900
3.400	87.700	12.83900	10.01130	.52910	-.69000	.09105	.48900	.00000	.55300	.00000	.48900
GRADIENT		-.00440	-.15637	-.00145	-.00413	-.00105	-.03872	.00000	.00103	.00000	-.03872

RUN NO. 265/ 0 RM/L = 5.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	109.720	10.96630	6.97660	.48350	-.51350	.09910	-.38990	.00000	.57100	.00000	-.38990
4.959	107.840	11.23310	7.28900	.50910	-.50120	.08020	-.28430	.00000	.56960	.00000	-.28430
4.959	105.820	11.52430	7.57820	.52140	-.52660	.06150	-.19400	.00000	.56830	.00000	-.19400
4.959	103.820	11.89620	7.94360	.53100	-.53530	.04760	-.09600	.00000	.56550	.00000	-.09600
4.959	101.820	12.19520	8.23170	.52690	-.50700	.03430	-.02440	.00000	.56430	.00000	-.02440
4.959	99.820	12.51150	8.58260	.52280	-.51050	.02070	.05340	.00000	.56210	.00000	.05340
4.959	97.810	12.76870	8.96140	.53320	-.50300	.00910	.14740	.00000	.56010	.00000	.14740
4.959	95.810	12.98020	9.07280	.54340	-.52880	.00340	.21700	.00000	.55870	.00000	.21700
4.959	93.830	12.92000	9.30600	.52750	-.50540	.00130	.29210	.00000	.55750	.00000	.29210
4.959	91.810	12.61100	9.44270	.53900	-.45370	.00940	.33560	.00000	.55670	.00000	.33560
4.959	89.930	12.66300	9.56210	.52210	-.43100	.00920	.38870	.00000	.55590	.00000	.38870
4.959	87.820	12.09500	9.55420	.53710	-.50210	.00790	.05570	.00000	.56200	.00000	.05570
GRADIENT		-.00913	-.13549	-.00167	-.00311	.00102	-.03939	.00000	.00081	.00000	-.03939



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TUT 587

PAGE 11

NSFC 587 (FAA) TITAN III C SRM (HSETP)

(097007) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0300 IN YMRP = 4.6330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. YMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 242/ 0 RM/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTMH	CBL	CA	CAS	XCP/L	CPH1	CAF
.997	129.370	5.90480	-2.10940	-.03900	-2.259300	.02440	-1.00400	.00000	.70000	.00000	-1.00000
.997	127.670	5.69980	-2.07190	-.00330	-2.11000	.01130	-.90860	.00000	.69750	.00000	-.90860
.997	125.660	6.02900	-2.10480	.07970	-1.72600	.02140	-.78850	.00000	.69570	.00000	-.78850
.997	123.650	6.19810	-1.98010	.29290	-1.67920	.02340	-.69910	.00000	.69190	.00000	-.69910
.997	121.656	6.37320	-1.78300	.37310	-1.66120	.03290	-.60740	.00000	.68890	.00000	-.60740
.997	119.640	6.45090	-1.61990	.32020	-1.72690	.00920	-.50840	.00000	.68330	.00000	-.50840
.997	117.640	6.58370	-1.31460	.18360	-1.75740	.00850	-.41350	.00000	.67670	.00000	-.41350
.997	115.640	6.67740	-1.27260	-.13510	-1.02040	-.03750	-.30000	.00000	.67560	.00000	-.30000
.997	113.670	6.78020	-.91700	-.21360	-.98500	-.03660	-.21240	.00000	.66860	.00000	-.21240
.997	111.650	6.93340	-.56880	-.24340	-.87310	-.03990	-.15290	.00000	.66190	.00000	-.15290
.997	109.780	7.10240	-.15100	-.27240	-.78970	-.06840	-.10090	.00000	.65420	.00000	-.10090
.997	119.680	6.59100	-1.66400	.08910	-1.48900	-.01960	-.50380	.00000	.68440	.00000	-.50380
GRADIENT		-.07472	-.09703	.01803	-.07271	.00506	-.04689	.00000	.00226	.00000	-.04689

RUN NO. 241/ 0 RM/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTMH	CBL	CA	CAS	XCP/L	CPH1	CAF
.902	129.340	6.65700	-2.47950	.03910	-7.78770	-.00400	-1.04730	.00000	.69860	.00000	-1.04730
.902	127.430	7.00080	-2.37120	.06640	-.69980	.00040	-.98880	.00000	.69430	.00000	-.98880
.902	125.410	7.35950	-2.17520	.10410	-.59240	.01020	-.90120	.00000	.68890	.00000	-.90120
.902	123.410	7.67820	-1.91660	.08070	-.54740	.01240	-.80470	.00000	.68140	.00000	-.80470
.902	121.430	7.99450	-1.19770	.12190	-.58240	.00910	-.72610	.00000	.67040	.00000	-.72610
.902	119.410	8.21890	-.83420	.08830	-.60880	-.00940	-.63660	.00000	.66430	.00000	-.63660
.902	117.420	8.57820	-.24810	.03740	-.55930	-.01550	-.53740	.00000	.65510	.00000	-.53740
.902	115.430	8.81130	.34350	.12310	-.48190	-.02200	-.44470	.00000	.64650	.00000	-.44470
.902	113.470	9.02700	.81400	.11580	-.44220	-.02040	-.34240	.00000	.63990	.00000	-.34240
.902	111.470	9.17320	1.38890	.12500	-.39240	-.03070	-.25490	.00000	.63230	.00000	-.25490
.902	109.800	9.34560	1.90880	.12870	-.35080	-.03970	-.13350	.00000	.62570	.00000	-.13350
.902	115.430	8.58010	-.74600	.09370	-.61670	.00810	-.63880	.00000	.66280	.00000	-.63880
GRADIENT		-.13587	-.23453	-.00356	-.01039	.00223	-.04575	.00000	.00387	.00000	-.04575

DATE 18 JUL 74

TABULATED SOURCE DATA, NSFC TWT 507

PAGE 12

NSFC 507 (744) TITAN III C SRM (NSDET7)

(R070007) ( 23 APR 74 )

## REFERENCE DATA

REF = .0369 IN XMRP = 4.6330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PWI = .000

RUN NO. 240/ 0 RM/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CTWM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	129.320	8.67980	1.34720	.32210	-.74720	.00790	-1.33160	.00000	.03180	.00000	-1.33160
1.197	127.410	9.00240	1.61690	.31060	-.60920	.00490	-1.80980	.00000	.02890	.00000	-1.80980
1.197	125.410	9.40390	1.90750	.32710	-.82240	.00490	-1.19650	.00000	.02490	.00000	-1.19650
1.197	123.400	9.80280	2.26740	.30210	-.96360	.07760	-1.11400	.00000	.02240	.00000	-1.11400
1.197	121.390	10.21740	2.54740	.39180	-.51160	.07940	-1.02450	.00000	.01990	.00000	-1.02450
1.197	119.370	10.52890	2.74960	.39900	-.48260	.08420	-.92280	.00000	.01840	.00000	-.92280
1.197	117.360	10.85090	3.05450	.39290	-.51940	.08680	-.82540	.00000	.01580	.00000	-.82540
1.197	115.370	11.12610	3.51940	.39550	-.52070	.08490	-.72630	.00000	.01140	.00000	-.72630
1.197	113.360	11.41190	3.90360	.40050	-.49330	.07810	-.63620	.00000	.00820	.00000	-.63620
1.197	111.390	11.68070	4.43710	.42360	-.52190	.08940	-.54030	.00000	.00340	.00000	-.54030
1.197	109.520	11.87320	4.87360	.43830	-.51800	.08700	-.44090	.00000	.59930	.00000	-.44090
1.197	119.390	10.51940	2.80580	.39260	-.50420	.08590	-.91630	.00000	.01770	.00000	-.91630
GRADIENT		-.16086	-.17159	-.00364	-.01041	-.00008	-.04572	.00000	.00155	.00000	-.04572

RUN NO. 262/ 0 RM/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CTWM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.990	129.430	8.32630	3.52610	.37550	-.42880	.12170	-1.37970	.00000	.59790	.00000	-1.37970
1.990	127.530	8.76910	3.95230	.44910	-.37720	.13620	-1.30610	.00000	.59440	.00000	-1.30610
1.990	125.530	9.10450	4.36340	.46080	-.39250	.13430	-1.22010	.00000	.59130	.00000	-1.22010
1.990	123.510	9.64820	4.87220	.47380	-.36340	.13060	-1.14840	.00000	.59020	.00000	-1.14840
1.990	121.510	9.97940	5.03690	.46350	-.39050	.12250	-1.05290	.00000	.58760	.00000	-1.05290
1.990	119.490	10.35240	5.41500	.45740	-.41060	.12790	-.96190	.00000	.58530	.00000	-.96190
1.990	117.490	10.82490	5.66780	.46700	-.42140	.12990	-.87360	.00000	.58520	.00000	-.87360
1.990	115.490	11.11340	6.01810	.47300	-.43170	.12990	-.76930	.00000	.58290	.00000	-.76930
1.990	113.480	11.43430	6.31040	.47610	-.42530	.13210	-.66640	.00000	.58160	.00000	-.66640
1.990	111.470	11.69570	6.68420	.49360	-.41250	.13430	-.56010	.00000	.57910	.00000	-.56010
1.990	109.590	11.91900	6.96590	.50390	-.39910	.13950	-.45440	.00000	.57750	.00000	-.45440
1.990	119.520	10.32780	5.45890	.45590	-.40570	.12520	-.95860	.00000	.58460	.00000	-.95860
GRADIENT		-.10295	-.10966	-.00394	.00176	-.00036	-.04646	.00000	.00095	.00000	-.04646



TABULATED SOURCE DATA, MSFC TWT 507

MSFC 507 (FA0) TITAN III C SRM (MSBTP)

DATE : 17 JUL 74

PARAMETRIC DATA

BETA = .000 PWI = .006

REFERENCE DATA

REF = .6360 IN XWRP = 4.6330 IN.  
 LREF = .9000 IN. YWRP = .0000 IN.  
 REF = .9000 IN. ZWRP = .0000 IN.  
 SCALE = .0074

RUN NO. 287/0 RM/L = 6.39 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CMH	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPH	CAF
3.400	129.390	7.70700	3.77300	.35370	-.34900	.06350	-1.36340	.00000	.58950	.00000	-1.36340
3.400	127.700	8.10120	4.04640	.37940	-.35800	.06950	-1.26990	.00000	.58030	.00000	-1.26990
3.400	125.000	8.49750	4.36240	.39610	-.37150	.07100	-1.16950	.00000	.56650	.00000	-1.16950
3.400	123.000	8.86400	4.66480	.41310	-.39090	.07250	-1.06440	.00000	.54900	.00000	-1.06440
3.400	121.070	9.26510	4.93990	.43060	-.41070	.06560	-.96670	.00000	.54000	.00000	-.96670
3.400	119.000	9.63450	5.23980	.44860	-.43650	-.00740	-.86840	.00000	.52660	.00000	-.86840
3.400	117.640	9.99560	5.55090	.46820	-.47700	.06500	-.75970	.00000	.51200	.00000	-.75970
3.400	115.640	10.30150	5.83350	.48180	-.48260	.06460	-.65760	.00000	.57980	.00000	-.65760
3.400	113.640	10.59540	6.11100	.49180	-.50540	.06180	-.55290	.00000	.57800	.00000	-.55290
3.400	111.640	10.86310	6.48250	.49510	-.53140	.06310	-.44810	.00000	.57590	.00000	-.44810
3.400	109.760	11.13020	6.80210	.49190	-.54730	.06360	-.35540	.00000	.57410	.00000	-.35540
3.400	119.070	9.59960	5.25610	.46090	-.43790	.04060	-.86950	.00000	.58240	.00000	-.86950
3.400	GRADIENT	-.17329	-.15114	-.00736	.01063	.00075	-.05099	.00000	.00075	.00000	-.05099

RUN NO. 288/0 RM/L = 5.15 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CMH	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPH	CAF
4.939	129.710	7.60480	4.12660	.34880	-.33250	.07500	-1.41660	.00000	.58280	.00000	-1.41660
4.939	127.030	7.95400	4.48040	.36030	-.34340	.05850	-1.31310	.00000	.58050	.00000	-1.31310
4.939	125.010	8.38360	4.90720	.36990	-.34630	.05740	-1.20870	.00000	.57990	.00000	-1.20870
4.939	123.010	8.78270	5.04270	.38580	-.40580	.05470	-1.09010	.00000	.57880	.00000	-1.09010
4.939	121.000	9.18230	5.34330	.42610	-.40420	.06090	-.98310	.00000	.57780	.00000	-.98310
4.939	119.070	9.58300	5.42640	.44090	-.39880	.04380	-.86080	.00000	.57960	.00000	-.86080
4.939	117.000	9.95380	5.83370	.45270	-.46950	.06550	-.75580	.00000	.57730	.00000	-.75580
4.939	115.790	10.29800	6.10340	.46510	-.48440	.06710	-.62980	.00000	.57650	.00000	-.62980
4.939	113.770	10.64410	6.37650	.49170	-.49740	.04960	-.52250	.00000	.57370	.00000	-.52250
4.939	111.770	10.95970	6.69460	.51770	-.51490	.04990	-.41550	.00000	.57420	.00000	-.41550
4.939	109.090	11.21980	6.98060	.51970	-.56250	.05370	-.30740	.00000	.57270	.00000	-.30740
4.939	119.000	9.52920	5.58510	.45830	-.38590	.00060	-.86900	.00000	.57730	.00000	-.86900
4.939	GRADIENT	-.18915	-.13905	-.00896	.01150	.00061	-.05623	.00000	.00041	.00000	-.05623

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR



(RDT000) ( 23 APR 74 )

NUPC 307(UAA) TITAN III C SUN (NUPC)

PARAMETRIC DATA

REFERENCE DATA

REF = .6300 90. IN XREF = 4.0330 IN.  
 LREF = .9000 IN. YREF = .0000 IN.  
 BREF = .9000 IN. ZREF = .0000 IN.  
 SCALE = .0074  
 RUN NO. 109/ 0 RM/L = 0.01 GRADIENT INTERVAL = -5.00/ 5.00  
 SETA = .000 PHI = .000

RMCH	ALPHA	CWM	CLWM	CTM	CYMM	CBL	CA	CAB	KCP/L	CPB1	CAF
1.190	140.310	3.50700	.16000	.31520	-2.28010	.18600	-1.91700	.34300	.64700	-.34300	-2.26190
1.190	140.320	3.52230	.23450	.34430	-1.75100	.16940	-1.87550	.32790	.64010	-.32790	-2.20350
1.190	144.230	6.45070	.38070	.37850	-1.41290	.17300	-1.80160	.30940	.64360	-.30940	-2.11190
1.190	142.090	7.04050	.55050	.43230	-1.21390	.18360	-1.74170	.32230	.64160	-.32230	-2.06400
1.190	139.990	7.09410	.04250	.59510	-.99020	.20630	-1.69540	.34940	.63760	-.34940	-2.04790
1.190	137.000	8.19550	.95350	.60360	-.83760	.20550	-1.64290	.36190	.63680	-.36190	-2.00490
1.190	135.760	8.62200	.82250	.65980	-.87120	.20400	-1.56440	.35190	.63940	-.35190	-1.91640
1.190	133.670	8.89940	.59100	.63110	-.92470	.19090	-1.48790	.33670	.64310	-.33670	-1.82590
1.190	131.590	9.21840	.44450	.61560	-.99050	.18590	-1.41950	.32590	.64540	-.32590	-1.75800
1.190	129.520	9.49170	.45010	.57510	-.88910	.16440	-1.33220	.30950	.64350	-.30950	-1.65920
1.190	127.500	9.76440	.71220	.55550	-.83150	.16680	-1.23560	.30950	.64220	-.30950	-1.54520
1.190	137.000	9.19140	.95340	.64660	-.83250	.19930	-1.64350	.35300	.63670	-.35300	-1.99840
1.190	GRADIENT	-.21025	-.01645	-.01448	-.05562	.00028	-.03204	.00026	.00009	-.00026	-.03230

RUN NO. 34/ 0 RM/L = 0.34 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CWM	CLWM	CTM	CYMM	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	149.160	3.99040	1.36020	.20190	-.28250	.12620	-1.87100	.02300	.60740	-.02300	-1.89410
3.400	147.200	4.39970	1.54580	.29420	-.27150	.11710	-1.85940	.01420	.60700	-.01420	-1.87360
3.400	145.140	4.79650	1.71040	.31270	-.26320	.11920	-1.84290	.00430	.60630	-.00430	-1.84710
3.400	145.090	5.21950	1.90120	.33910	-.31200	.13380	-1.82150	-.00310	.60540	.00310	-1.81020
3.400	141.010	5.67760	2.12360	.33750	-.31870	.13690	-1.79920	.01250	.60410	.01250	-1.78640
3.400	139.950	6.11500	2.32450	.39660	-.32220	.11900	-1.75450	-.02400	.60340	.02400	-1.75060
3.400	136.890	6.50270	2.55650	.38110	-.31890	.09470	-1.67450	-.03550	.60220	.03550	-1.64000
3.400	134.830	6.97120	2.79570	.38590	-.32510	.08720	-1.58920	-.04480	.60070	.04480	-1.54440
3.400	132.790	7.40420	3.04670	.40580	-.33790	.08730	-1.51010	-.05590	.59940	.05590	-1.45610
3.400	130.710	7.81800	3.30210	.42180	-.35780	.07690	-1.41120	-.05670	.59800	.05670	-1.35440
3.400	128.740	8.22450	3.56790	.42790	-.39810	.07240	-1.31670	-.05680	.59660	.05680	-1.25980
3.400	126.950	8.63560	3.83220	.38270	-.32950	.10350	-1.175100	-.02230	.60310	.02230	-1.12060
3.400	GRADIENT	-.20845	-.10705	-.00721	.00520	.00293	-.02724	.00427	.00354	-.00427	-.03152



TABULATED SOURCE DATA, NSFC TWT 507

DATE 11 JUL 74

(R07009) ( 23 APR 74 )

NSFC 507 (PA4) TITAN III C SRM (MDETP)

PARAMETRIC DATA

REFERENCE DATA

REF = .6300 IN. IN TMRP = 4.6330 IN. BETA = .000 PHI = .000

LRP = .9000 IN. TMRP = .0000 IN.

REF = .9000 IN. ZMRP = .0000 IN.

SCALE = .0074

RUN NO. 106/ 0 RN/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
MACN	109.940	-1.11376	.54290	.08480	.04520	-1.05050	-.04360	.08790	.04360	-1.00690
.999	167.620	-1.20560	.64380	.26000	.07350	-1.10040	-.03550	.85540	.03550	-1.06480
.999	163.610	-1.29160	.69190	.41630	.07040	-1.13300	-.03020	.82320	.03020	-1.10270
.999	163.370	-1.29510	.73540	.42620	.06620	-1.16670	-.02030	.78760	.02030	-1.14640
.999	161.970	-1.22790	.81500	.45770	.06840	-1.21190	-.01130	.76190	.01130	-1.20000
.999	159.920	-1.18880	.89130	.47310	.06990	-1.26050	-.00510	.74200	.00510	-1.23340
.999	157.490	-1.06000	1.00320	.47790	.06310	-1.31670	.00550	.71060	-.00550	-1.32230
.999	155.450	-1.07790	.97290	.49050	.06880	-1.33600	.00910	.71010	-.00910	-1.34510
.999	153.440	-1.14010	.87690	.04090	.07210	-1.32560	.02970	.70700	-.02970	-1.35930
.999	151.390	-1.17630	.73170	-.18530	.06170	-1.30920	.02520	.70350	-.02520	-1.33440
.999	149.460	-1.18800	.63790	-.43860	.06420	-1.26570	.03060	.69900	-.03060	-1.29640
.999	159.920	-1.19930	.89990	.50120	.05790	-1.26910	.00100	.74160	-.00100	-1.27010
GRADIENT	-1.13107	-.00336	-.00864	.02653	-.00032	.01320	-.00391	.00945	.00391	.01712

RUN NO. 107/ 0 RN/L = 6.21 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
MACN	109.470	-.70720	.53740	.19780	.09690	-1.19380	.00000	.77250	.00000	-1.19380
.999	167.520	-.80670	.63900	.41960	.09180	-1.24860	.01090	.75990	-.01090	-1.25950
.999	163.490	-.86150	.67180	.53700	.09750	-1.30950	.02060	.74460	-.02060	-1.33820
.999	163.430	-1.02210	.66310	.50440	.09670	-1.34680	.04320	.73210	-.04320	-1.39200
.999	161.390	-.86760	.69840	.45320	.10760	-1.39480	.06170	.71770	-.06170	-1.45660
.999	159.330	-1.05370	.83990	.46190	.09880	-1.43740	.08520	.70590	-.08520	-1.52260
.999	157.280	-.84080	1.19900	.44800	.11600	-1.47620	.09890	.69830	-.09890	-1.57510
.999	155.190	-.95230	1.33540	.10180	.12130	-1.49740	.10380	.69590	-.10380	-1.60130
.999	153.130	-1.05760	1.34490	-.16050	.12600	-1.50470	.12700	.69480	-.12700	-1.63170
.999	151.020	-1.20030	1.18310	-.74530	.12490	-1.51180	.15510	.69490	-.15510	-1.66690
.999	149.020	-1.30090	.92110	-1.36980	.13870	-1.49360	.17370	.69350	-.17370	-1.65740
.999	159.330	-.82320	.87740	.49610	.10310	-1.48230	.08980	.70310	-.08980	-1.54810
GRADIENT	-1.15991	.02326	-.03529	.06793	-.00216	.01332	-.00641	.00396	.00641	-.02372

DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 587

PAGE 18

NSPC 507 (FAM) TITAN III C 80W (MDETP)

(027000) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0300 80. IN XREF = 4.0330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 ZREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 100/ 0 RM/L = 0.61 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CNN	CLNN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	169.360	.94220	-.93490	.56920	.23390	.06900	-1.73490	.16970	.77710	-.16970	-1.90470
1.197	167.390	1.21030	-.96170	.72490	.44410	.07610	-1.77290	.19390	.73360	-.19390	-1.96870
1.197	165.340	1.49710	-1.03310	1.01240	.60840	.08180	-1.82000	.21970	.73680	-.21970	-2.03980
1.197	163.240	1.64160	-1.03390	1.20920	.67900	.09940	-1.84990	.24220	.72260	-.24220	-2.09210
1.197	161.170	2.23760	-1.03980	1.39670	1.11300	.09640	-1.86760	.25350	.71010	-.25350	-2.12110
1.197	159.030	2.63340	-1.11330	1.51330	1.10130	.10930	-1.87320	.27140	.70460	-.27140	-2.14470
1.197	156.940	3.11540	-1.14120	1.48620	.69260	.12340	-1.88630	.28680	.69730	-.28680	-2.17290
1.197	154.820	3.63960	-1.10330	1.19610	-.27970	.14510	-1.89300	.31320	.68960	-.31320	-2.20840
1.197	152.710	4.24900	-.84570	.62460	-1.34830	.17150	-1.92620	.36320	.67670	-.36320	-2.26940
1.197	150.600	4.90990	-.26130	.50920	-2.13860	.20020	-1.92140	.37210	.65820	-.37210	-2.29350
1.197	148.570	5.49010	.68370	.36120	-2.16490	.21330	-1.90620	.36640	.64950	-.36640	-2.27260
1.197	156.040	2.66790	-1.14550	1.49660	1.10100	.11150	-1.85420	.24450	.70580	-.24450	-2.09880
1.197	GRADIENT	-.21095	-.03617	.01134	.13604	-.00709	.00813	-.01003	.00559	.01003	.01615

RUN NO. 110/ 0 RM/L = 0.96 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CNN	CLNN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.934	169.360	.86870	-.63730	.38460	.32310	.04990	-1.82450	.06970	.74250	-.06970	-1.91430
1.934	167.400	1.16370	-.49170	.50760	.46840	.05840	-1.63850	.10730	.70410	-.10730	-1.94590
1.934	165.350	1.51070	-.30260	.59970	.52990	.07330	-1.85550	.12210	.67680	-.12210	-1.97770
1.934	163.240	1.89730	-.19250	.67860	.52890	.07930	-1.88710	.13920	.66430	-.13920	-2.02840
1.934	161.180	2.31670	-.02290	.68180	.52960	.09720	-1.89670	.15400	.65270	-.15400	-2.05080
1.934	159.050	2.77030	.27040	.53330	-.15810	.13120	-1.92190	.17710	.63920	-.17710	-2.09910
1.934	156.930	3.29130	.70610	.43360	-.62350	.15110	-1.94900	.19610	.62430	-.19610	-2.14320
1.934	154.840	3.77670	1.03330	.42850	-.79660	.17800	-1.93230	.18720	.61680	-.18720	-2.11960
1.934	152.790	4.21610	1.26400	.42660	-.84140	.19590	-1.90350	.16590	.61390	-.16590	-2.06910
1.934	150.680	4.66460	1.41950	.47060	-.77890	.21000	-1.89100	.14160	.61300	-.14160	-2.03260
1.934	148.680	5.04660	1.60300	.50960	-.64970	.20200	-1.86620	.12410	.61130	-.12410	-1.99030
1.934	156.050	2.72960	.46950	.49640	-.18330	.13520	-1.88230	.16760	.62980	-.16760	-2.04990
1.934	GRADIENT	-.20771	-.11671	.00337	.07670	-.00882	.00304	-.00232	.00581	.00232	.00559



DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 587

PAGE 17

NSPC 587 (744) TITAN III C SEM (INDETP)

(IN77009) ( 23 APR 74 )

## REFERENCE DATA

REF = .6360 IN. INTRP = 4.6338 IN.  
 LEZF = .9000 IN. YMRP = .0000 IN.  
 REF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 35/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	169.560	.64900	-.05620	.14440	.20590	.05050	-1.78260	.05370	.68240	-.05370	-1.03640
3.480	167.630	.07000	.04540	.16910	.21490	.04840	-1.79630	.05660	.64490	-.05660	-1.03300
3.480	165.590	1.11300	.17030	.19610	.16910	.05210	-1.80600	.06100	.63210	-.06100	-1.03790
3.480	163.560	1.38140	.32070	.19110	.08930	.04400	-1.82040	.06760	.62210	-.06760	-1.03860
3.480	161.510	1.09970	.48240	.18710	-.03230	.06660	-1.83010	.07000	.61560	-.07000	-1.04100
3.480	159.460	2.03100	.66540	.18210	-.12650	.07500	-1.83600	.06940	.61000	-.06940	-1.04740
3.480	157.410	2.41350	.83310	.17790	-.22790	.07670	-1.83380	.06350	.60780	-.06350	-1.04730
3.480	155.350	2.79930	.96230	.20320	-.26410	.08440	-1.83250	.05410	.60800	-.05410	-1.04670
3.480	153.310	3.18510	1.09320	.23070	-.27900	.09820	-1.83720	.04770	.60600	-.04770	-1.04500
3.480	151.230	3.56790	1.19660	.25640	-.26040	.09840	-1.86150	.03950	.60900	-.03950	-1.04110
3.480	149.200	3.93990	1.34890	.28150	-.24900	.09730	-1.87190	.03140	.60810	-.03140	-1.03330
3.480	159.460	2.03070	.85150	.17370	-.11690	.05950	-1.84250	.06890	.61090	-.06890	-1.04150
GRADIENT		-.16466	-.07143	-.00480	.02879	-.00301	.00422	.00119	.00233	-.00119	.00303

RUN NO. 36/ 0 RM/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	169.640	.49210	.01300	.08650	.16110	.02740	-1.79210	.02200	.64790	-.02200	-1.01420
4.939	167.730	.63740	.12030	.13130	.13920	.06950	-1.78620	.02330	.62750	-.02330	-1.00950
4.939	165.690	.80710	.24020	.14470	.13900	.05050	-1.79470	.02400	.61640	-.02400	-1.01870
4.939	163.700	1.13290	.44880	.19030	.08960	.06440	-1.80240	.02280	.60220	-.02280	-1.02520
4.939	161.660	1.45850	.59610	.15220	.07140	.04090	-1.82910	.0230	.59900	-.02300	-1.03240
4.939	159.600	1.78020	.76860	.16280	-.09460	.08910	-1.84090	.02130	.59680	-.02130	-1.03220
4.939	157.610	2.13120	.92960	.16240	-.10000	.06440	-1.85200	.01530	.59680	-.01530	-1.03750
4.939	155.610	2.52330	1.05810	.17910	-.18970	.07180	-1.84920	.00860	.59640	-.00860	-1.03590
4.939	153.560	2.92550	1.17470	.22590	-.15740	.06640	-1.85870	-.00390	.60070	-.00390	-1.03480
4.939	151.500	3.30060	1.36930	.26510	-.18900	.09430	-1.87540	-.01340	.59900	-.01340	-1.04190
4.939	149.610	3.69950	1.51540	.27810	-.15290	.09070	-1.86860	-.02350	.59960	-.02350	-1.04510
4.939	159.460	1.80760	.78400	.14700	-.04470	.05960	-1.86250	.01600	.59660	-.01600	-1.04850
GRADIENT		-.16466	-.07143	-.00480	.02879	-.00301	.00422	.00119	.00233	-.00119	.00303

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 11 JUL 74

## TABULATED SOURCE DATA, NUPC TWT 507

PAGE 10

NUPC 967 (FAJ) TITAN III C SRN (MSETP)

(INPT010) ( 23 APR 74 )

## REFERENCE DATA

REF = .6300 IN INTP = 4.6330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 REF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = .000

## PARAMETRIC DATA

RUN NO. 105/ 0 RM/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.995	189.990	-.50220	1.03780	.06630	.36590	-.12010	-1.12430	-.07100	.91300	.07100	-1.05290
.995	188.070	-.37230	.03110	.07460	.23720	-.10900	-1.03100	-.08500	.92940	.08500	-.94490
.995	186.070	-.27770	.61910	.07900	.22720	-.07590	-1.00090	-.08910	.93560	.08910	-.91180
.995	184.030	-.21740	.31440	.05380	.18910	-.08210	-.96200	-.09660	.83490	.09660	-.86510
.995	182.020	-.15780	.12030	.03930	.07120	-.08210	-.96200	-.10190	.74800	.10190	-.84390
.995	179.990	.00420	-.12670	.07500	.03430	-.03700	-.93690	-.10350	2.58820	.10350	-.83330
.995	177.970	.09320	-.41590	.11260	-.01300	-.02040	-.94090	-.09800	1.21630	.09800	-.84200
.995	175.950	.22070	-.69970	.16860	-.01770	.02030	-.94370	-.09430	1.02970	.09430	-.84930
.995	173.950	.31270	-.86370	.26740	-.05420	.00070	-.94970	-.07790	1.00920	.07790	-.87170
.995	171.910	.42460	-.99850	.39320	-.08200	.03200	-.96990	-.05770	.94910	.05770	-.91210
.995	169.990	.59770	-.1.09770	.53500	.06910	.05310	-1.01940	-.03740	.88390	.03740	-.98200
.995	160.020	-.07200	-.18820	.07920	.03440	-.03640	-.93600	-.10680	.32070	.10680	-.83110
.995	GRADIENT	-.05246	.11298	-.02023	.01837	-.00818	-.00471	-.00148	-.00469	.00148	-.00323

RUN NO. 104/ 0 RM/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.994	190.070	-.63150	.06270	.02490	.39200	-.13690	-1.31030	-.03080	.82440	.03080	-1.27940
.994	188.130	-.48800	.62650	.04950	.26380	-.10230	-1.22910	-.03000	.81400	.03000	-1.19100
.994	186.110	-.34850	.42950	.05570	.19480	-.07890	-1.15880	-.04950	.80800	.04950	-1.10930
.994	184.060	-.25440	.23560	.02900	.09210	-.03070	-1.11460	-.06140	.77770	.06140	-1.03320
.994	182.050	-.13850	.13990	.04480	.11710	-.00960	-1.08490	-.07310	.77930	.07310	-1.01170
.994	180.000	-.02700	-.04800	.09690	.09310	.01340	-1.06870	-.08270	.42630	.08270	-.98600
.994	177.960	.11650	-.22080	.12620	.03060	.03310	-1.07740	-.07670	.86700	.07670	-1.00070
.994	175.930	.25970	-.33710	.16980	.01840	.03690	-1.08740	-.06690	.82820	.06690	-1.02030
.994	173.890	.39220	-.47030	.30280	.03490	.04960	-1.10710	-.04920	.80320	.04920	-1.05790
.994	171.880	.54960	-.58160	.45500	.10940	.06740	-1.13760	-.02000	.78540	.02000	-1.11760
.994	169.920	.72730	-.69110	.58010	.27220	.07400	-1.17510	-.00120	.77170	.00120	-1.17380
.994	179.990	.00740	-.00430	.08920	.08230	.02410	-1.08170	-.07830	.72290	.07830	-1.00310
.994	GRADIENT	-.06477	.07972	-.02490	.00229	-.01026	-.00564	-.00092	.00261	.00092	-.00471

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TUT 507

PAGE 10

NSFC 507 (P44) TITAN III C SRM (UNETP)

(207010) ( 23 APR 74 )

## REFERENCE DATA

1027 = .0360 IN. ZMRP = 4.0330 IN.  
 1027 = .0600 IN. YMRP = .0000 IN.  
 1027 = .0800 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 103/ 0 RM/L = 6.02 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.200	100.100	-76300	1.06990	.02010	.48930	-.13690	-1.03800	.10190	.02770	-.10190	-2.01900
1.200	100.200	-50730	.92730	.03900	.41610	-.09940	-1.70800	.15510	.05130	-.15510	-1.92370
1.200	100.300	-40620	.69720	.06020	.34400	-.06110	-1.72790	.14140	.06070	-.14140	-1.86900
1.200	104.110	-.20290	.41410	.05030	.22870	-.02130	-1.60010	.14550	.05000	-.14550	-1.83370
1.200	106.050	-.10720	.17160	.06690	.21760	-.00030	-1.65640	.15020	.05410	-.15020	-1.78650
1.200	179.980	.03690	-.03300	.12950	.21340	.02210	-1.63700	.13030	.72250	-.13030	-1.70010
1.200	177.930	.19580	-.25400	.15010	.19630	.03500	-1.66100	.14040	.01500	-.14040	-1.80200
1.200	175.980	.34240	-.51590	.17540	.11040	.03820	-1.60760	.13630	.04210	-.13630	-1.82600
1.200	173.950	.51000	-.67930	.23830	.05310	.04190	-1.71300	.13710	.81900	-.13710	-1.85020
1.200	171.770	.70620	-.80170	.39370	.14800	.06600	-1.74270	.13650	.79510	-.13650	-1.86930
1.200	169.610	.90170	-.88050	.57590	.32290	.07160	-1.77960	.17790	.76740	-.17790	-1.93330
1.200	179.990	.04620	-.04920	.12510	.21070	.01700	-1.63790	.12860	.74200	-.12860	-1.76600
1.200	GRADIENT	-.00071	.10307	-.02202	.01347	-.00991	-.00202	.00015	.00325	-.00015	-.00215

RUN NO. 111/ 0 RM/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.946	100.100	-76930	.97360	-.09890	.12790	-.10400	-1.01810	.06590	.01170	-.04590	-1.08410
1.946	100.210	-.55920	.85930	-.04900	.16760	-.07820	-1.70660	.05560	.04590	-.05560	-1.94220
1.946	100.170	-.37850	.70460	-.02060	.15540	-.05470	-1.75460	.04220	.06710	-.04220	-1.79690
1.946	104.100	-.24680	.51500	-.01110	.09390	-.02590	-1.75730	.03100	.91450	-.03100	-1.70030
1.946	102.070	-.11920	.23540	-.01370	.04500	-.01270	-1.74740	.02490	.90130	-.02490	-1.77230
1.946	179.990	.00200	-.09030	.01690	.05100	.01680	-1.74670	.02920	8.19020	-.02920	-1.77600
1.946	177.930	.14070	-.51000	.05470	.07040	.02220	-1.76740	.03140	.93020	-.03140	-1.79800
1.946	175.980	.26270	-.40920	.09040	.03200	.03100	-1.75920	.04070	.06710	-.04070	-1.79800
1.946	173.930	.41830	-.65500	.12730	-.00250	.04840	-1.77610	.04760	.04970	-.04760	-1.82370
1.946	171.770	.62100	-.73710	.22640	.04900	.04900	-1.77970	.06200	.80170	-.06200	-1.86030
1.946	169.780	.89790	-.86910	.39520	.31000	.05430	-1.81940	.08310	.74500	-.08310	-1.90260
1.946	179.980	.01930	-.09110	.01760	.03440	.01640	-1.69200	.03230	1.24710	-.03230	-1.72440
1.946	GRADIENT	-.07420	.09430	-.01897	-.00098	-.00780	.00058	-.00070	.00283	-.00070	-.00120

NSFC 567 (744) TITAN III C 30N (MDETP)

(097010) ( 23 APR 74 )

## REFERENCE DATA

REF = -6308 24. IN XMRP = 4.6338 IN.  
 LEF = -9000 IN. YMRP = -9000 IN.  
 REF = -9000 IN. ZMRP = -9000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 36/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	190.100	-66050	.43640	-.07320	.20070	-.07370	-1.03550	.05810	.73410	-.05810	-1.03370
3.400	188.250	-46940	.40000	-.06130	.19920	-.05720	-1.01060	.05170	.77040	-.05170	-1.00230
3.400	186.220	-33820	.38950	-.05840	.14190	-.04130	-1.76470	.04360	.79660	-.04360	-1.82840
3.400	184.190	-.23350	.29870	-.04900	.09830	-.02220	-1.76470	.03590	.81340	-.03590	-1.80020
3.400	182.170	-.13080	.17070	-.04810	.07790	-.02340	-1.75650	.03340	.81680	-.03340	-1.79990
3.400	180.140	-.00350	.09650	-.04350	.03130	.01080	-1.74750	.03480	.414070	-.03480	-1.78230
3.400	178.100	-.08840	-.05690	-.04110	.04480	.00270	-1.74820	.03600	.72620	-.03600	-1.76420
3.400	176.100	.17860	-.15550	-.01330	.03130	-.00910	-1.75310	.03970	.76170	-.03970	-1.79290
3.400	174.090	.29720	-.17560	.03840	.07290	.02110	-1.75870	.04620	.72630	-.04620	-1.80490
3.400	172.050	.44190	-.13880	.09450	.15140	.03090	-1.76580	.05100	.69120	-.05100	-1.81680
3.400	170.100	.63770	-.04880	.14440	.20490	.02470	-1.77290	.04950	.66120	-.04950	-1.82250
3.400	168.140	.01040	.10440	-.03730	.05390	-.02100	-1.75060	.03390	-.81060	-.03390	-1.78460
GRADIENT		-.35947	.03445	-.00940	.00251	-.00489	-.00271	.00012	.00488	-.00012	-.00283

RUN NO. 37/ 0 RM/L = 4.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
4.959	190.090	-.60570	.40280	-.09390	.11360	-.06580	-1.76820	.02050	.73560	-.02050	-1.80870
4.959	188.100	-.48330	.35250	-.09260	.11400	-.04870	-1.77710	.01890	.74780	-.01890	-1.79540
4.959	186.150	-.37710	.30380	-.07670	.09250	-.04370	-1.74720	.01620	.75340	-.01620	-1.76330
4.959	184.160	-.26200	.20740	-.07420	.07630	-.03650	-1.72160	.01500	.75170	-.01500	-1.74260
4.959	182.150	-.17680	.15770	-.07240	.04680	-.00870	-1.71570	.01390	.76440	-.01390	-1.72970
4.959	180.150	-.11880	.09440	-.05630	.02510	.01800	-1.71210	.01440	.75200	-.01440	-1.72650
4.959	178.130	-.00610	-.03370	-.06830	.01820	.03610	-1.69020	.01440	-.04290	-.01440	-1.70475
4.959	176.130	.00300	-.10980	-.03920	.07740	-.01100	-1.70890	.01540	.81890	-.01540	-1.72430
4.959	174.140	.19710	-.11230	-.02430	.07140	.03890	-1.70670	.01620	.72360	-.01620	-1.72290
4.959	172.110	.31390	-.14370	.00470	.10180	.03560	-1.72470	.01800	.70940	-.01800	-1.74270
4.959	170.180	.43230	-.00030	.08120	.13220	.04780	-1.71000	.01900	.67500	-.01900	-1.72960
4.959	168.190	-.14790	.11010	-.07120	.03130	-.01530	-1.70560	.01590	.74570	-.01590	-1.72180
GRADIENT		-.04947	.02945	-.00634	.00021	-.00526	-.00352	.00003	.00556	-.00003	-.00356



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 597

NSFC 597(F44) TITAN III C SRM (HME7P)

(R37011) ( 23 APR 74 )

PARAMETRIC DATA

REFERENCE DATA

BREF = .6300 IN ZMRP = 4.6330 IN.  
 LREF = .9000 IN. TMRP = .0000 IN.  
 BREF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 337.500

RUN NO. 136/ 0 RM/L = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.196	-10.160	-0.9490	-1.61260	-0.35910	-0.13048	1.22350	.23520	.42340	-.23520	.96920
1.196	-8.200	-0.67500	-1.27760	-0.32310	-0.09670	1.20670	.21090	.41220	-.21090	.96900
1.196	-6.170	-0.47630	-0.94950	-0.29690	-0.05700	1.18630	.21020	.39920	-.21020	.97400
1.196	-4.120	-0.31590	-0.61710	-0.25280	-0.03320	1.16000	.19800	.40420	-.19800	.96190
1.196	-2.000	-0.13660	-0.29160	-0.20790	.01840	1.13690	.19810	.39130	-.19810	.94070
1.196	.000	.08280	.02990	-0.17360	.03810	1.14650	.20460	.39120	-.20460	.94190
1.196	2.030	.24240	.31440	-0.12910	.06650	1.16050	.21380	.48730	-.21380	.94670
1.196	4.070	.37440	.62190	-0.10640	.07650	1.15090	.22250	.44130	-.22250	.92840
1.196	6.110	.50350	.95900	-0.07040	.09290	1.16520	.23530	.44350	-.23530	.92980
1.196	8.160	.74200	1.34910	-0.03410	.09540	1.19300	.24390	.43310	-.24390	.94900
1.196	10.130	.96590	1.69860	.03610	.10040	1.20190	.23790	.42690	-.23790	.96390
1.196	-0.010	.08160	-0.01220	-0.10280	.03730	1.12360	.18700	.67650	-.18700	.93650
GRADIENT		.04508	.15032	.01614	.01013	.00017	.00316	.00886	-.00316	-.00297

RUN NO. 7/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	-10.260	-1.03230	-1.72000	-0.12090	-.11770	.79980	.05470	.44460	-.05470	.74510
3.480	-8.290	-0.78620	-1.41920	-0.09110	-.10990	.78760	.05300	.42300	-.05300	.73460
3.480	-6.250	-0.53210	-1.08870	-0.07270	-.08350	.76680	.04840	.39250	-.04840	.72040
3.480	-4.210	-0.32870	-0.73900	-0.05030	-.04000	.73900	.04470	.36690	-.04470	.69320
3.480	-2.170	-0.13800	-0.37230	-0.03390	-.01570	.72110	.04040	.31010	-.04040	.68070
3.480	.130	.02510	-.03780	.00650	.00540	.70620	.03410	.24140	-.03410	.67210
3.480	1.690	.17690	.28630	.02890	.02010	.71500	.03500	.44670	-.03500	.68000
3.480	3.920	.33940	.59300	.07370	.03240	.72770	.04160	.43030	-.04160	.68600
3.480	5.940	.55330	.95240	.12260	.06360	.73660	.04330	.43360	-.04330	.69530
3.480	8.000	.76740	1.28480	.16900	.09250	.75730	.04740	.43960	-.04740	.70990
3.480	9.980	1.03250	1.69790	.20910	.09340	.75960	.05170	.44330	-.05170	.70690
3.480	-0.140	.02480	-0.05150	.01290	.01170	.70660	.03320	.91430	-.03320	.67340
GRADIENT		.06126	.16352	.01549	.00689	-.00132	-.00057	.01306	.00057	-.00075



WSPC 307 (744) TITAN III C 30M (INDETP)

(R07012) ( 23 APR 74 )

## REFERENCE DATA

BREF = .0300 94. IN XREF = 4.6338 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 BREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 397.500

RUN NO. 137/ 0 RM/L = 6.97 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.198	10.890	.97350	1.76280	.07950	.27120	.10090	1.15260	.18300	.42230	-.18300	.98950
1.198	12.450	1.16970	2.16520	-.14340	.26000	.11470	1.16630	.19790	.41720	-.19790	.96840
1.198	14.700	1.47900	2.61050	.26700	.23850	.11690	1.16810	.22320	.42750	-.22320	.94880
1.198	16.780	1.81840	3.12930	.41340	.20190	.12030	1.15830	.24190	.43370	-.24190	.91640
1.198	18.980	2.20770	3.68050	.56040	.19830	.13970	1.13520	.25110	.44050	-.25110	.88400
1.198	21.010	2.64480	4.33010	.77820	.14200	.15670	1.11180	.25910	.44740	-.25910	.85260
1.198	23.130	3.20940	5.01750	.98180	.13240	.17590	1.07760	.25500	.45360	-.25500	.82280
1.198	25.280	3.77540	5.69520	1.15750	.11340	.19090	1.09090	.26830	.46060	-.26830	.80250
1.198	27.380	4.40310	6.49550	1.31620	.12180	.18090	1.07410	.30230	.46490	-.30230	.77180
1.198	29.530	5.06230	7.33200	1.47350	.15870	.20000	1.05470	.32010	.46820	-.32010	.73490
1.198	31.000	5.69610	8.11980	1.57800	.14350	.21910	1.03220	.33510	.47110	-.33510	.69710
1.198	21.010	2.69300	4.33000	.77800	.19230	.15430	1.09430	.24850	.44810	-.24850	.84580
GRADIENT		.22893	.30536	.57758	-.00704	.00538	-.00659	.00684	.00271	-.00684	-.01344

RUN NO. 6/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.488	10.490	1.03220	1.89770	.20800	-.15540	.07810	.78930	.05820	.44330	-.05820	.73010
3.488	12.480	1.29910	2.42760	.22960	-.23260	.09740	.80190	.06380	.45390	-.06380	.73810
3.488	14.516	1.60350	2.41170	.23450	-.22550	.12300	.82230	.06850	.46140	-.06850	.73380
3.488	16.530	1.91120	2.74030	.23560	-.23560	.13340	.84370	.06590	.47010	-.06590	.77780
3.488	18.610	2.25740	3.08930	.24390	-.23590	.13920	.86340	.06350	.47920	-.06350	.79980
3.488	20.670	2.62450	3.44450	.25990	-.20190	.15910	.88050	.06100	.48540	-.06100	.81990
3.488	22.730	3.00730	3.78850	.29210	-.19750	.17090	.89870	.06090	.49200	-.06090	.83770
3.488	24.790	3.38080	4.09150	.27820	-.20770	.19740	.91850	.06200	.49870	-.06200	.85640
3.488	26.830	3.81970	4.43310	.30170	-.28400	.22880	.94330	.06140	.50460	-.06140	.88390
3.488	28.910	4.24190	4.80770	.30860	-.27560	.23970	.97720	.05560	.50800	-.05560	.92160
3.488	30.900	4.68880	5.19970	.32750	-.27860	.24830	.99330	.04620	.51110	-.04620	.94710
3.488	20.670	2.61200	3.42078	.25950	-.18130	.17580	.88210	.05950	.48570	-.05950	.82250
GRADIENT		.17923	.16911	-.00546	-.00385	.00831	.01012	-.00055	.00335	-.00055	.01147



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 507

(R07014) ( 23 APR 74 )

NSFC 507 (P44) TITAN III C 30N (MBETP)

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 PHI = 337.500

REF = .016C 30. IN XMRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

RUN NO. 176/ 0 RN/L = 0.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMW	CLMW	CTW	CTWM	CBL	CA	CAB	KCP/L	CP81	CAF
1.197	50.000	9.79130	13.07200	.49720	-.36490	.34960	.07000	.00000	.48250	.00000	.07600
1.197	52.770	10.21360	13.27110	.57960	-.30090	.33720	.04290	.00000	.48700	.00000	.04290
1.197	54.730	10.61220	13.39310	.63060	-.36200	.42130	.00620	.00000	.49170	.00000	.00620
1.197	56.730	10.97190	13.53420	.66910	-.40310	.43790	.75760	.00000	.49540	.00000	.75760
1.197	58.790	11.34340	13.71320	.70520	-.44370	.45130	.71910	.00000	.49850	.00000	.71910
1.197	60.780	11.61430	13.76200	.74410	-.46320	.46660	.67420	.00000	.50150	.00000	.67420
1.197	62.770	11.90390	13.89800	.76920	-.49830	.46990	.03660	.00000	.50500	.00000	.03660
1.197	64.760	12.05910	13.43150	.83110	-.40040	.46170	.60300	.00000	.51050	.00000	.60300
1.197	66.710	12.23360	13.04510	.89310	-.34630	.51060	.55560	.00000	.51650	.00000	.55560
1.197	68.720	12.40890	12.85460	.95670	-1.04420	.53240	.53540	.00000	.52120	.00000	.53540
1.197	70.600	12.79360	12.45930	.74190	-.59770	.45230	.67640	.00000	.50220	.00000	.67640
1.197	60.780	11.59270	13.67090	.02042	-.03851	.00757	-.01795	.00000	.00214	.00000	-.01795
GRADIENT		.14316	-.02283								

RUN NO. 315/ 0 RN/L = 0.35 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMW	CLMW	CTW	CTWM	CBL	CA	CAB	KCP/L	CP81	CAF
3.400	50.490	9.75030	8.23860	.19440	-.71310	.33280	1.04990	.00000	.53240	.00000	1.04990
3.400	52.380	9.17630	8.55350	.50700	-.74860	.35080	1.04060	.00000	.53350	.00000	1.04060
3.400	54.410	9.59650	8.85500	.51930	-.80420	.35590	1.01070	.00000	.53470	.00000	1.01070
3.400	56.420	9.95390	9.04790	.51930	-.86670	.36930	.97290	.00000	.53620	.00000	.97290
3.400	58.440	10.30920	9.19760	.54500	-.94900	.38170	.94550	.00000	.53860	.00000	.94550
3.400	60.440	10.66800	9.35510	.54570	-1.01320	.40640	.91450	.00000	.54050	.00000	.91450
3.400	62.420	10.97160	9.41880	.55930	-1.09410	.40190	.87840	.00000	.54280	.00000	.87840
3.400	64.430	11.27730	9.52530	.57210	-1.17730	.43030	.83010	.00000	.54460	.00000	.83010
3.400	66.430	11.56900	9.62000	.59250	-1.21240	.44020	.79380	.00000	.54620	.00000	.79380
3.400	68.430	11.84430	9.72980	.59920	-1.26700	.45000	.75510	.00000	.54750	.00000	.75510
3.400	70.330	12.11640	9.78230	.60770	-1.32190	.45608	.71130	.00000	.54930	.00000	.71130
3.400	60.420	10.02470	9.32370	.54490	-1.02770	.42330	.91330	.00000	.54040	.00000	.91330
GRADIENT		.16714	.07221	.00579	-.03230	.00641	-.01746	.00000	.00089	.00000	-.01746

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

HSPC 907 (744) TITAN III C 80M (HSPC)

IR570133 ( 23 APR 74 )

## REFERENCE DATA

907 = .0300 84. IN XIMP = 4.0330 IN.  
 1027 = .0000 IN. YIMP = .0000 IN.  
 9027 = .0000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

DELTA = .000 PM1 = 337.900

RUN NO. 177/ 0 RM/L = 0.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.196	70.760	12.42190	12.34340	.92940	-.99370	.51790	.58020	.00000	.52370	.00000	.58020
1.192	72.650	12.69340	12.13100	.97940	-1.09690	.52790	.55240	.00000	.53050	.00000	.55240
1.196	74.610	12.92360	11.86420	1.02910	-1.14920	.54740	.53170	.00000	.53530	.00000	.53170
1.196	76.590	13.09800	11.58850	1.08390	-1.20800	.56790	.49350	.00000	.53950	.00000	.49350
1.196	78.580	13.33970	11.41140	1.10990	-1.27550	.58270	.46070	.00000	.54320	.00000	.46070
1.196	80.580	13.53970	11.18460	1.16350	-1.37060	.60350	.44090	.00000	.54690	.00000	.44090
1.196	82.580	13.74490	10.65330	1.22490	-1.43390	.61600	.43290	.00000	.55150	.00000	.43290
1.196	84.540	13.87000	10.49350	1.27000	-1.47370	.62630	.40920	.00000	.55570	.00000	.40920
1.196	86.490	13.91800	10.04970	1.30610	-1.47680	.63420	.39700	.00000	.56010	.00000	.39700
1.196	88.490	13.91820	9.63340	1.32000	-1.47620	.64080	.38030	.00000	.56390	.00000	.38030
1.196	90.370	13.92890	9.33130	1.34190	-1.51220	.64080	.33760	.00000	.56670	.00000	.33760
1.196	90.380	13.54560	11.18810	1.16810	-1.35280	.60360	.45640	.00000	.54890	.00000	.45640
GRADIENT		.08009	-.13319	.02212	-.02679	.00661	-.01153	.00000	.00209	.00000	-.01153

RUN NO. 314/ 0 RM/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	70.500	12.14000	9.73900	.60030	-1.33240	.43000	.73290	.00000	.54910	.00000	.73290
3.480	72.380	12.25290	9.67830	.58030	-1.44480	.43770	.71240	.00000	.55150	.00000	.71240
3.480	74.400	12.40350	9.68990	.58240	-1.52810	.45360	.67490	.00000	.55330	.00000	.67490
3.480	76.390	12.68900	9.67220	.59770	-1.55010	.45330	.60990	.00000	.55500	.00000	.60990
3.480	78.410	12.84070	9.53990	.60000	-1.59560	.46850	.55000	.00000	.55740	.00000	.55000
3.480	80.400	12.99320	9.48180	.61680	-1.59940	.46020	.50510	.00000	.55930	.00000	.50510
3.480	82.380	13.09370	9.40040	.63690	-1.62670	.47590	.43980	.00000	.56060	.00000	.43980
3.480	84.400	13.19740	9.38030	.64160	-1.63560	.49090	.37340	.00000	.56150	.00000	.37340
3.480	86.370	13.26080	9.30390	.64620	-1.63480	.48940	.32160	.00000	.56270	.00000	.32160
3.480	88.390	13.27940	9.16500	.65600	-1.60430	.48340	.25360	.00000	.56410	.00000	.25360
3.480	90.280	13.28290	9.01250	.68050	-1.49010	.49700	.20360	.00000	.56560	.00000	.20360
3.480	90.390	12.97100	9.44350	.61010	-1.59840	.49080	.50970	.00000	.55930	.00000	.50970
GRADIENT		.08370	-.03452	.00454	-.00923	.00927	-.02846	.00000	.00681	.00000	-.02846

DATE 11 JUL 74

TAL-LATED SOURCE DATA, WSPC TWT 587

(187010) (23 APR 74)

WSPC 587(PA4) TITAN III C 38M (MBETP)

PARAMETRIC DATA

REFERENCE DATA

0.030 98. IN YMRP = 4.6330 IN.  
 0.000 98. IN YMRP = .0000 IN.  
 0.000 98. IN YMRP = .0000 IN.  
 0.0074

BETA = .000 PHI = 337.500

RUN NO. 236/ 0 RN/L = 0.37 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CMH	CLWH	CTH	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
1.202	109.367	5.79440	1.86750	-1.38090	.63500	-.32640	.00000	.59250	.00000	-.32640
1.202	107.45	5.85690	1.91550	-1.37090	.64370	-.40250	.00000	.59250	.00000	-.40250
1.202	105.45	6.02510	1.96000	-1.39200	.65800	-.25960	.00000	.59200	.00000	-.25960
1.202	103.450	6.30720	2.01380	-1.41060	.67980	-.13170	.00000	.59040	.00000	-.13170
1.202	101.450	6.59380	2.06160	-1.44310	.70820	-.01150	.00000	.58880	.00000	-.01150
1.202	99.440	6.92840	2.09210	-1.48000	.70480	.09220	.00000	.58670	.00000	.09220
1.202	97.450	7.38390	2.10010	-1.49140	.72160	.19120	.00000	.58320	.00000	.19120
1.202	95.470	7.85420	2.12290	-1.50030	.73280	.27250	.00000	.57990	.00000	.27250
1.202	93.490	8.28030	2.11720	-1.54660	.73320	.35340	.00000	.57560	.00000	.35340
1.202	91.510	8.72490	2.10870	-1.49220	.73140	.41620	.00000	.57270	.00000	.41620
1.202	89.650	9.13790	2.10360	-1.45690	.72880	.45640	.00000	.56910	.00000	.45640
1.202	87.770	9.53560	2.07980	-1.43980	.71170	.08970	.00000	.56640	.00000	.08970
1.202	85.860	9.91223	-.01223	.00612	-.00326	-.05068	.00000	.00124	.00000	-.05068

RUN NO. 269/ 0 RN/L = 0.37 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CMH	CLWH	CTH	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	109.520	6.12520	.99770	-.68030	.38550	-.44730	.00000	.58530	.00000	-.44730
3.400	107.650	6.47800	1.02040	-.69620	.39620	-.34670	.00000	.58310	.00000	-.34670
3.400	105.630	6.85280	1.04250	-.72590	.39540	-.25480	.00000	.58060	.00000	-.25480
3.400	103.630	7.17850	1.04590	-.75210	.38920	-.17330	.00000	.57660	.00000	-.17330
3.400	101.640	7.50100	1.05610	-.81320	.38990	-.08980	.00000	.57660	.00000	-.08980
3.400	99.620	7.79650	1.07320	-.84740	.40270	-.00500	.00000	.57480	.00000	-.00500
3.400	97.650	8.10900	1.07770	-.92080	.40460	.06790	.00000	.57270	.00000	.06790
3.400	95.630	8.35290	1.07680	-.99720	.40360	.14440	.00000	.57090	.00000	.14440
3.400	93.680	8.56310	1.06850	-1.05940	.41210	.21060	.00000	.56960	.00000	.21060
3.400	91.640	8.83750	1.09810	-1.07440	.41230	.27250	.00000	.56770	.00000	.27250
3.400	89.770	9.14610	1.09450	-1.10290	.42140	.32570	.00000	.56510	.00000	.32570
3.400	87.830	9.48600	1.08060	-.07160	.39010	-.01130	.00000	.57480	.00000	-.01130
3.400	85.860	9.8447	-.00464	.02434	-.00150	-.03901	.00000	.00098	.00000	-.03901

NSPC 507 (744) TITAN III C 38M (INSETP)

(1807017) (23 APR 74)

## REFERENCE DATA

SHEP = .0300 IN. INP = 4.0330 IN.  
 LDET = .0000 IN. YIMP = .0000 IN.  
 OREF = .0000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 3.57.500

RUN NO. 239/ 0 RM/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.202	120.300	9.62800	2.04770	1.43990	-1.30820	.46640	-1.46130	.00000	.62460	.00000	-1.46130
1.202	127.300	9.93610	2.21410	1.49330	-1.40370	.49280	-1.36110	.00000	.62330	.00000	-1.36110
1.202	125.300	10.39760	2.57730	1.58440	-1.43110	.52810	-1.28350	.00000	.62010	.00000	-1.28350
1.202	123.300	10.63770	2.99340	1.67680	-1.35760	.55390	-1.18360	.00000	.61680	.00000	-1.18360
1.202	121.300	11.20080	3.59420	1.74710	-1.28890	.57160	-1.09870	.00000	.61310	.00000	-1.09870
1.202	119.370	11.40980	3.83890	1.76780	-1.31230	.56700	-1.09710	.00000	.60920	.00000	-1.09710
1.202	117.390	11.73450	4.18100	1.81040	-1.37790	.60810	-1.08370	.00000	.60640	.00000	-1.08370
1.202	115.380	11.88190	4.43420	1.82060	-1.37380	.61220	-1.06360	.00000	.60420	.00000	-1.06360
1.202	113.390	12.09170	4.61030	1.84760	-1.45230	.63000	-1.04950	.00000	.60320	.00000	-1.04950
1.202	111.370	12.34720	4.81330	1.90070	-1.50670	.65260	-1.03420	.00000	.60210	.00000	-1.03420
1.202	109.490	12.57070	5.07840	1.94430	-1.44120	.66390	-1.02360	.00000	.60040	.00000	-1.02360
1.202	119.390	11.41980	3.86090	1.77190	-1.27830	.58280	-1.09370	.00000	.60870	.00000	-1.09370
GRADIENT		-1.14603	-1.16119	-0.02404	.00397	-0.00952	-0.05193	.00000	.00131	.00000	-0.05193

RUN NO. 268/ 0 RM/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	129.530	8.11580	3.21110	.72990	-1.45960	.30840	-1.42740	.00000	.60140	.00000	-1.42740
3.480	127.660	8.32580	3.43650	.75490	-1.48910	.31000	-1.32720	.00000	.60050	.00000	-1.32720
3.480	125.830	8.97450	3.71020	.78560	-1.50870	.31030	-1.22140	.00000	.59820	.00000	-1.22140
3.480	123.820	9.34640	3.95760	.81630	-1.52740	.32170	-1.10920	.00000	.59790	.00000	-1.10920
3.480	121.510	9.73250	4.19940	.85970	-1.53290	.32050	-1.00150	.00000	.59690	.00000	-1.00150
3.480	119.610	10.10430	4.44730	.88990	-1.53800	.33070	-1.00990	.00000	.59580	.00000	-1.00990
3.480	117.600	10.45130	4.73620	.92150	-1.57150	.33250	-1.00150	.00000	.59410	.00000	-1.00150
3.480	115.580	10.77200	5.01360	.95000	-1.57030	.33100	-1.00060	.00000	.59260	.00000	-1.00060
3.480	113.600	11.10540	5.32480	.97930	-1.58820	.34520	-1.00270	.00000	.59080	.00000	-1.00270
3.480	111.580	11.40140	5.65720	1.01530	-1.62410	.35400	-1.00890	.00000	.58870	.00000	-1.00890
3.480	109.700	11.66410	5.97000	1.04410	-1.62280	.35210	-1.00380	.00000	.58680	.00000	-1.00380
3.480	119.610	10.06740	4.44150	.89700	-1.55590	.30630	-1.00140	.00000	.59560	.00000	-1.00140
GRADIENT		-1.17887	-1.13727	-0.01603	.00786	-0.00241	-0.05295	.00000	.00072	.00000	-0.05295



DATE 11 JUL 76

TABULATED SOURCE DATA, NSPC TWT 507

PAGE 27

NSPC 507 (FAC) TITAN 111 C SRM (MDETP)

(1897019) ( 23 APR 74 )

## REFERENCE DATA

DEEP = .0300 IN. TMRP = 4.0300 IN.  
 LEEP = .0000 IN. TMRP = .0000 IN.  
 DEEP = .0000 IN. TMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 337.500

RUN NO. 101/ 0 RM/L = 6.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.198	169.316	1.13800	-.98920	.74930	.43530	.06550	-1.07170	.18020	.76140	-.18820	-2.03990
1.198	167.340	1.43900	-.97270	1.01020	.54390	.07970	-1.92000	.22290	.73700	-.22290	-2.14260
1.198	165.280	1.80420	-.97060	1.35420	.79500	.08960	-1.93660	.24540	.72010	-.24540	-2.20200
1.198	163.150	2.24230	-1.00310	1.65850	.92730	.10940	-1.97610	.26190	.70810	-.26190	-2.23000
1.198	161.060	2.72180	-1.04950	1.93550	.92110	.12600	-2.00540	.29310	.70210	-.29310	-2.29860
1.198	158.920	3.20440	-1.21180	1.92400	.77330	.14960	-2.01890	.29930	.69930	-.29930	-2.31480
1.198	156.800	3.70760	-1.27270	1.99520	.44450	.18300	-2.01270	.29930	.69490	-.29930	-2.31210
1.198	154.680	4.26830	-1.32250	1.72400	-.36150	.20970	-2.03900	.34650	.68650	-.34650	-2.34980
1.198	152.580	4.87540	-.89640	1.31350	-1.16000	.24800	-2.04450	.41520	.67370	-.41520	-2.45980
1.198	150.440	5.51190	-.22230	1.39330	-1.74220	.27390	-2.02760	.46810	.65650	-.46810	-2.49600
1.198	148.420	6.31750	.31670	1.38860	-1.94770	.30020	-1.98390	.47110	.64510	-.47110	-2.45500
1.198	150.910	3.22940	-1.16490	1.92890	.80320	.15360	-1.99700	.27900	.69790	-.27900	-2.27610
GRADIENT		-.24574	-.04046	-.02314	.13031	-.01160	.00599	-.01352	.00472	.01352	.01932

RUN NO. 40/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.480	169.550	.72090	-.04430	.23400	.24790	.07390	-1.03230	.06590	.65930	-.06590	-1.09820
3.480	167.610	.98810	.03860	.29700	.20790	.06320	-1.03720	.06720	.64380	-.06720	-1.92450
3.480	165.580	1.22610	.19190	.32900	.24678	.08200	-1.08280	.07020	.63170	-.07020	-1.93500
3.480	163.550	.93310	.29170	.34020	.10780	.10200	-1.90440	.07290	.62740	-.07290	-1.97730
3.480	161.500	1.88800	.43420	.35540	.01070	.11400	-1.92940	.07670	.62200	-.07670	-2.00820
3.480	159.420	2.21140	.51400	.37110	-.07660	.14030	-1.93220	.07390	.62210	-.07390	-2.00610
3.480	157.370	2.58900	.82430	.41760	-.11730	.15740	-1.94540	.06620	.62090	-.06620	-2.01170
3.480	155.300	2.97050	.69960	.45750	-.13630	.16790	-1.96130	.05510	.62170	-.06140	-2.02280
3.480	153.260	3.36950	.78150	.49790	-.10750	.18990	-1.97500	.04900	.62210	-.05510	-2.03020
3.480	151.180	3.76700	.86990	.53170	-.21910	.22460	-1.98750	.04200	.62160	-.04900	-2.03650
3.480	149.190	4.17610	.93640	.56600	-.24490	.25550	-2.00410	.04200	.62310	-.04200	-2.04610
3.480	159.430	2.19970	.92240	.37690	-.05570	.11500	-1.93790	.07230	.62140	-.07230	-2.01030
GRADIENT		-.17110	-.04887	-.01510	.02825	-.00853	.00793	.00122	.00136	-.00122	.00871

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 31 JUL 74

TABULATED SOURCE DATA, NUPC TWT 507

PAGE 28

NUPC 507 (TAA) TITAN III C SRN (INCEP)

(1207020) ( 23 APR 74 )

## REFERENCE DATA

REF = .0308 54. IN INUP = 4.0338 IN.  
 LREF = .0000 IN. INUP = .0000 IN.  
 REF = .0000 IN. INUP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 337.500

RUN NO. 102/ 0 RM/L = 1.03 GRADIENT INTERVAL = -3.00/ 5.00

NACH	ALPHA	CMN	CLMN	CTN	CTNM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.199	190.210	-.09740	1.39310	.09640	.52070	-.20700	-1.74460	.17990	.64790	-.17990	-1.96480
1.199	188.230	-.09250	1.13330	.06470	.43350	-.15740	-1.73750	.15340	.87920	-.15340	-1.89100
1.199	186.190	-.08310	.87270	.04300	.33020	-.11050	-1.68840	.13690	.60000	-.13690	-1.82330
1.199	184.130	-.07190	.55430	.04140	.23070	-.06940	-1.65900	.13030	.89180	-.13030	-1.78940
1.199	182.060	-.11680	.24740	.05780	.14480	-.03020	-1.64610	.11930	.91340	-.11930	-1.76930
1.199	179.980	.07600	.01690	.10470	.20960	.00990	-1.64200	.12640	.62320	-.12640	-1.76840
1.199	177.920	.23090	-.27910	.12090	.18350	.03330	-1.67710	.13180	.80450	-.13180	-1.80370
1.199	175.860	.41860	-.52820	.17070	.12300	.04280	-1.71470	.12320	.81120	-.12320	-1.83790
1.199	173.810	.64060	-.72890	.28830	.06340	.06360	-1.73990	.13620	.79510	-.13620	-1.87610
1.199	171.720	.90140	-.84850	.51110	.24130	.07230	-1.80480	.16990	.77030	-.16990	-1.97430
1.199	169.760	1.17240	-.90360	.76500	.46060	.08320	-1.87420	.20260	.74900	-.20260	-2.07690
1.199	179.970	.09430	.01580	.10030	.19730	.01860	-1.84270	.12360	.63030	-.12360	-1.76840
GRADIENT		-.09371	.11931	-.02734	.00965	-.01414	.00449	-.00077	.00653	.00077	.00525

RUN NO. 39/ 0 RM/L = 0.32 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMN	CLMN	CTN	CTNM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	190.190	-.71760	.57660	-.05630	.15030	-.10620	-1.79810	.09400	.75320	-.09400	-1.85220
3.400	188.260	-.52350	.59230	-.04220	.12340	-.07790	-1.77940	.05170	.79420	-.05170	-1.83110
3.400	186.230	-.38650	.48320	-.03230	.09710	-.04870	-1.75940	.04350	.80970	-.04350	-1.80300
3.400	184.200	-.27090	.37530	-.04280	.04050	-.02850	-1.74200	.03630	.82680	-.03630	-1.77840
3.400	182.180	-.15630	.22590	-.04810	.04380	-.02050	-1.74550	.03360	.83440	-.03360	-1.77910
3.400	180.150	-.05390	.08370	-.04290	.01720	-.00630	-1.74370	.03340	.84780	-.03340	-1.77910
3.400	178.100	.07410	-.03020	-.03410	.01430	.00960	-1.75450	.03210	.70310	-.03210	-1.78670
3.400	176.100	.17760	-.12700	-.01690	.01490	.02020	-1.76250	.03290	.76340	-.03290	-1.79930
3.400	174.090	.31160	-.18250	.09880	.04280	.03450	-1.77210	.03760	.72560	-.03760	-1.80590
3.400	172.040	.49830	-.17940	.13420	.15190	.04120	-1.79450	.04600	.69720	-.04600	-1.84060
3.400	170.690	.70730	-.05160	.22110	.24690	.05210	-1.81760	.05080	.66070	-.05080	-1.86840
3.400	168.150	-.06360	.10540	-.03670	.01990	-.02160	-1.74810	.03430	.85410	-.03430	-1.78250
GRADIENT		-.06497	.04302	-.01118	-.00140	-.00738	.00111	.00029	.00614	-.00029	.00582



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 567

NSFC 967(744) TITAN III C 88M (MBETP)

(R97021) ( 23 APR 74 )

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 PHI = 313.000

XREF = .6390 88. 1M XMRP = 4.6330 1M.  
 LREF = .9000 1M. YMRP = .0000 1M.  
 SREF = .9000 1M. ZMRP = .0000 1M.  
 SCALE = .0074

RUN NO. 141/ 0 RM/L = 4.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	-10.020	-1.98000	-1.27040	-26440	.26340	-.10390	.63240	.08270	.48840	-.04270	.96970
.998	-8.100	-.76740	-.97760	-.27820	.29800	-.07100	.64230	.07140	.49020	-.07140	.97090
.998	-6.100	-.80430	-.74430	-.28390	.33430	-.03410	.61350	.06410	.49560	-.06410	.94930
.998	-4.080	-.42410	-.49730	-.24720	.33520	-.01940	.59050	.06060	.50300	-.06060	.92990
.998	-2.080	-.24210	-.18360	-.23980	.32630	.02470	.56020	.06060	.59350	-.06060	.49980
.998	-.020	-.12190	.09320	-.23230	.35100	.06000	.54560	.06860	.73600	-.06860	.47700
.998	1.990	.07760	.38970	-.19440	.34510	.06000	.56620	.08300	.01600	-.08300	.48310
.998	4.010	.22000	.60630	-.20360	.33300	.06620	.57200	.08630	.30260	-.08630	.48300
.998	6.040	.42180	.95780	-.18700	.40280	.08110	.58720	.08410	.36410	-.08410	.50300
.998	8.060	.56070	1.34920	-.14980	.49990	.10370	.61320	.07770	.34700	-.07770	.53350
.998	10.090	.72240	1.60610	-.12030	.51330	.12780	.62340	.08680	.37018	-.08680	.53630
.998	-.020	-.12230	.08300	-.22210	.37090	.06670	.55390	.06790	.73740	-.06790	.48790
.998	GRADIENT	.07947	.13749	.00635	.00091	.01021	-.00154	.00367	-.04639	-.00367	-.00321

RUN NO. 140/ 0 RM/L = 6.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
.901	-10.100	-1.02180	-1.21000	-.24370	.29870	-.11920	.61000	.08170	.50060	-.08170	.72830
.901	-8.160	-.82170	-.93770	-.22760	.30730	-.08340	.80970	.07070	.50700	-.07070	.73890
.901	-6.140	-.82110	-.67050	-.22310	.30630	-.03700	.79150	.06240	.51480	-.06240	.72960
.901	-4.110	-.44800	-.41100	-.20230	.33040	-.02120	.75560	.03670	.53540	-.03670	.69690
.901	-2.070	-.23220	-.15630	-.20770	.34170	-.00210	.74270	.06610	.56520	-.06610	.67660
.901	-.010	-.06880	.12190	-.17520	.35200	.01750	.73430	.06760	.87540	-.07670	.65750
.901	2.020	.13180	.42980	-.13390	.33600	.03560	.74820	.08020	.23870	-.08020	.68790
.901	4.050	.29330	.73240	-.19930	.32730	.05670	.76000	.08480	.33550	-.08480	.67520
.901	6.090	.47960	1.03050	-.06430	.41300	.06260	.78010	.08590	.37960	-.08590	.69410
.901	8.130	.63270	1.35600	-.00130	.41660	.07290	.79840	.09230	.38840	-.09230	.70610
.901	10.090	.86780	1.65660	.04390	.41760	.08720	.80140	.10200	.40990	-.10200	.69940
.901	-.010	-.05650	.11770	-.17440	.33020	.01570	.73680	.07290	.91490	-.07290	.84390
.901	GRADIENT	.09048	.14085	.01174	-.00042	.00936	.00069	.00323	-.03546	-.00323	-.00256



NSFC 907 (744) TITAN III C SRM (NSC7P)

(R97021) ( 23 APR 74 )

## REFERENCE DATA

REF = -0.388 IN XREF = 4.6330 IN.  
 LREF = -0.000 IN. YREF = -0.000 IN.  
 BREF = -0.000 IN. ZREF = -0.000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 139/ 0 RM/L = 0.96 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CTM	CTNM	CSL	CA	CAB	KCP/L	CPB1	CAF
1.197	-10.170	-1.09220	-1.40508	-2.8360	.30080	-.12110	1.23590	.23180	.48170	-.23180	1.00400
1.197	-9.210	-.84160	-1.15080	-.28440	.31220	-.09410	1.21720	.22070	.47840	-.22070	.99030
1.197	-8.180	-.62230	-.82670	-.25330	.30560	-.05350	1.18010	.20500	.48340	-.20500	.97580
1.197	-4.120	-.40350	-.48240	-.22790	.28990	-.01470	1.15590	.20330	.50020	-.20330	.95240
1.197	-2.000	-.21320	-.19930	-.20250	.26950	-.00970	1.14100	.19240	.55690	-.19240	.94080
1.197	.000	.01620	.14080	-.18090	.25360	.05230	1.15040	.19250	-.44700	-.19250	.95780
1.197	2.030	.18760	.40960	-.16010	.22220	.06350	1.16290	.19260	.37620	-.19260	.97030
1.197	4.080	.56790	.75210	-.13780	.23230	.09240	1.14970	.19630	.39270	-.19630	.9310
1.197	6.120	.97730	1.10990	-.11170	.27230	.10370	1.16840	.20370	.40820	-.20370	.9460
1.197	8.190	.76670	1.50640	-.09420	.33360	.12650	1.19980	.21050	.40910	-.21050	.9323
1.197	10.100	1.03280	1.88000	-.06940	.32340	.14000	1.21330	.23190	.42110	-.23190	.9411
1.197	-.010	.01480	.09820	-.17010	.24690	.03620	1.12180	.17610	-.18430	-.17610	.94370
GRADIENT		.09479	.14807	.01085	-.00569	.01317	.00047	-.00065	-.01969	.00065	.00113

RUN NO. 127/ 0 RM/L = 0.95 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CTM	CTNM	CSL	CA	CAB	KCP/L	CPB1	CAF
1.982	-10.250	-1.19370	-1.81680	-1.2750	.10040	-.13350	.95370	.13280	.45880	-.13280	.82080
1.982	-8.270	-.89890	-1.59960	-.12150	.10640	-.11770	.93790	.11960	.45400	-.11960	.81800
1.982	-6.250	-.64760	-1.02480	-.11440	.13650	-.04270	.91260	.10850	.45120	-.10850	.80410
1.982	-4.130	-.41200	-.68600	-.10260	.14930	-.04960	.89230	.10260	.44690	-.10260	.78990
1.982	-2.090	-.20670	-.32290	-.08880	.12400	-.02230	.86720	.09370	.45370	-.09370	.77350
1.982	-.010	-.01930	.04270	-.07060	.11490	.00630	.87080	.08610	.45180	-.08610	.78270
1.982	2.040	.20110	.39510	-.05170	.12510	.04060	.89460	.09130	.40290	-.09130	.80330
1.982	4.100	.40440	.74930	-.02350	.11000	.06240	.88890	.09480	.41810	-.09480	.79410
1.982	6.170	.63300	1.12510	.00950	.10920	.07660	.93250	.10940	.42650	-.10940	.82280
1.982	8.240	.89330	1.55560	.06080	.10560	.11030	.94940	.12170	.43110	-.12170	.82770
1.982	10.290	1.21940	1.99820	.10390	.09550	.14950	.96160	.13480	.44430	-.13480	.84680
1.982	.000	.02270	.09400	-.04290	.12720	.09080	.85340	.08730	.12790	-.08730	.76610
GRADIENT		.09930	.17235	.00928	-.00373	.01393	.00098	-.00087	-.00917	.00087	.00186



DATE 11 JUL 74 TABULATED SOURCE DATA, NUPC TUT 507

IR070211 ( 23 APR 74 )  
NUPC 987 (TAA) TITAN III C 98M (NUPC)

PARAMETRIC DATA

DELTA = .000 PHI = 313.000

REFERENCE DATA

REF = .6300 86. IN XREF = 4.6330 IN.  
LREF = .9000 IN. YREF = .0000 IN.  
BREF = .9000 IN. ZREF = .0000 IN.  
SCALE = .0074

RUN NO. 8 / 0 RM/L = 0.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYN	CYWH	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	-10.290	-1.18550	-1.70350	-.04230	-.02160	-.12790	.78870	.03730	.48960	-.03730	.73130
3.400	-8.300	-.09120	-1.39700	-.04360	-.00960	-.10050	.77880	.03410	.45310	-.03410	.72680
3.400	-6.250	-.00970	-1.03300	-.03090	.00940	-.07660	.76450	.03090	.43700	-.03090	.71360
3.400	-4.210	-.39150	-.70280	-.03820	.03360	-.04400	.74380	.04560	.42430	-.04560	.69810
3.400	-2.190	-.16740	-.36770	-.04760	.04000	-.00870	.71750	.04220	.40320	-.04220	.67530
3.400	-.140	.01520	-.04600	-.01890	.03000	.03010	.71456	.03690	1.03340	-.03690	.67730
3.400	1.090	.19220	.29690	.00340	.03040	.03740	.73130	.03640	.45600	-.03640	.69300
3.400	3.930	.36150	.58190	.03820	-.00920	.05820	.75490	.04380	.45840	-.04380	.71110
3.400	5.950	.60900	.92310	.07260	-.04280	.09050	.78260	.05100	.45960	-.05100	.73150
3.400	8.020	.87470	1.29000	.11370	-.07870	.12180	.79270	.05440	.46630	-.05440	.73930
3.400	9.990	1.19370	1.60490	.14290	-.13700	.14180	.80760	.05530	.47340	-.05530	.73250
3.400	-.140	.00360	-.08230	-.03160	.00000	.02920	.71440	.03620	3.47800	-.03620	.67910
3.400	GRADIENT	.09450	.15864	.01199	-.00488	.01230	.00176	-.00036	.00601	.00036	.00215

RUN NO. 9 / 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYN	CYWH	CBL	CA	CAB	KCP/L	CPB1	CAF
4.999	-10.160	-1.06030	-1.51500	-.02100	.02660	-.14530	.69470	.02900	.47060	-.02900	.66660
4.999	-8.200	-.60280	-1.22710	.02020	.02370	-.12910	.68230	.02760	.45800	-.02760	.65440
4.999	-6.180	-.51750	-.88880	.02030	.06890	-.09240	.65440	.02760	.43400	-.02760	.62860
4.999	-4.160	-.34410	-.57210	.00370	.03210	-.06720	.63600	.02730	.44100	-.02730	.60870
4.999	-2.150	-.14360	-.32740	.00270	.04860	-.03460	.61360	.02560	.36290	-.02560	.58770
4.999	-.130	.02530	.01890	.02770	.03450	-.04010	.60080	.02430	.55660	-.02430	.57650
4.999	1.090	.13950	.19950	.04000	.02480	.02480	.62820	.02450	.47050	-.02450	.60360
4.999	3.090	.36780	.59240	.04880	-.04490	.02950	.66000	.02630	.44770	-.02630	.63370
4.999	5.900	.59110	.82690	.10320	-.10350	.01820	.67080	.02750	.47440	-.02750	.64340
4.999	7.920	.79070	1.10370	.11450	-.11510	.05400	.71590	.02930	.47480	-.02930	.68750
4.999	9.860	1.04530	1.45370	.13960	-.16070	.05420	.73410	.02930	.47530	-.02930	.70470
4.999	-.130	.02520	.01840	.02810	.03016	-.03870	.61860	.02500	.55890	-.02500	.59350
4.999	GRADIENT	.08474	.14779	.00633	-.01279	.01165	.00310	-.00016	.00403	.00016	.00327

NSPC 597 (744) TITAN III C SRM (HME7P)

(INST022) ( 23 APR 74 )

REFERENCE DATA

BREF = .6300 IN. INRP = 4.6330 IN.  
LREF = .9000 IN. YMRP = .0000 IN.  
BREF = .9000 IN. ZMRP = .0000 IN.  
SCALE = .0074

BETA = .000 PHI = 315.000

PARAMETRIC DATA

RUN NO. 142/ 0 RM/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
.596	10.540	.64000	1.65510	-.10100	.42000	.09400	.64100	.10020	.40200	-.10020	.54000
.596	12.480	1.04000	1.92950	-.07240	.44560	.12650	.65130	.09910	.42130	-.09910	.55210
.596	14.460	1.26430	2.12020	-.07230	.44320	.12060	.64300	.11720	.43040	-.11720	.52650
.596	16.510	1.54900	2.41400	-.04220	.47760	.13140	.64630	.13990	.45430	-.13990	.50640
.596	18.520	1.86120	2.80040	.03770	.53280	.15970	.63250	.15200	.46100	-.15200	.49100
.596	20.580	2.19800	3.13210	.17680	.55450	.15410	.63250	.16480	.47120	-.16480	.46760
.596	22.610	2.56790	3.45100	.48260	.40990	.19050	.62750	.17420	.48270	-.17420	.45330
.596	24.630	3.04220	3.76110	.90420	.11740	.21840	.60550	.15620	.45420	-.15620	.44920
.596	26.670	3.52200	4.12930	1.39410	-.10190	.26400	.59210	.15310	.50310	-.15310	.43900
.596	28.730	4.06590	4.37500	1.91030	-.18750	.27400	.55440	.16170	.51530	-.16170	.39260
.596	30.700	4.67500	4.74790	2.39770	.02570	.30610	.52620	.17050	.52290	-.17050	.35570
.596	20.570	2.17450	3.04600	.16750	.58960	.18200	.63990	.16350	.47100	-.16350	.47630
GRADIENT		.18707	.15548	.12202	-.03189	.01031	-.00546	.00342	.00571	-.00342	-.00808

RUN NO. 143/ 1 RM/L = 6.17 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
.902	10.620	.67010	1.67440	.05450	.41420	.09950	.62120	.09530	.40790	-.09530	.72580
.902	12.570	1.12430	1.93290	.12520	.47660	.11480	.61460	.11460	.43390	-.11460	.69990
.902	14.600	1.41580	2.26330	.20440	.42980	.13010	.79760	.13090	.44910	-.13090	.66670
.902	16.670	1.73060	2.59230	.33920	.32940	.16450	.76170	.15200	.46190	-.15200	.62960
.902	18.720	2.14370	3.01850	.43190	.24140	.19140	.77500	.16340	.47330	-.16340	.60950
.902	20.810	2.53490	3.48640	.53870	.19330	.21250	.76650	.17410	.47740	-.17410	.59230
.902	22.900	3.03910	4.09990	.69280	.13180	.26110	.76950	.18440	.48070	-.18440	.58510
.902	25.000	3.57490	4.75910	.94990	.04620	.30660	.74700	.17670	.48370	-.17670	.57030
.902	27.090	4.16260	5.32420	1.30670	.03120	.34520	.70950	.17510	.48960	-.17510	.53440
.902	29.200	4.76370	5.95000	1.71000	.12770	.37930	.65340	.18100	.49400	-.18100	.47230
.902	31.250	5.52930	6.74210	2.15950	.40720	.40500	.60900	.16950	.49700	-.16950	.44130
.902	20.820	2.98530	3.51920	.61750	.22510	.22690	.76310	.17680	.47920	-.17680	.60430
GRADIENT		.22270	.24575	.09519	-.01445	.01572	-.00897	.00364	.00375	-.00364	-.01260

TABULATED SOURCE DATA, NSFC TWT 507

(07022) ( 23 APR 74 )

NSFC 507 (CAA) TITAN III C SRM (MBETP)

PARAMETRIC DATA

BETA = .000 PHI = 315.000

REFERENCE DATA

0027 = .0300 IN. INP = 4.0330 IN.  
 0028 = .0000 IN. INP = .0000 IN.  
 0029 = .0000 IN. INP = .0000 IN.  
 SCALE = .0074

RUN NO. 1447 0 RM/L = 0.57 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CHN	CLMN	CTN	CTMN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.199	1.04530	1.00000	-.07290	-.29000	.12410	1.22120	.24020	.43240	-.24020	-.98000
1.199	1.34220	2.19220	-.04000	-.30740	.14900	1.24760	.26160	.44480	-.26160	-.98000
1.199	1.71180	2.59000	.01400	-.29310	.17830	1.24070	.27420	.46230	-.27420	-.97240
1.199	2.13750	3.03030	.11100	-.27700	.22970	1.22040	.28630	.47370	-.28630	-.94210
1.199	2.60330	3.59810	.24400	-.20400	.29400	1.21390	.29890	.48230	-.29890	-.91800
1.199	3.22470	4.16190	.45600	-.14050	.29000	1.20300	.31410	.48810	-.31410	-.89050
1.199	3.64200	4.63400	.73730	-.09000	.32750	1.20310	.32970	.49220	-.32970	-.87260
1.199	4.49700	5.59890	.96800	-.04000	.40160	1.18060	.31830	.49350	-.31830	-.84230
1.199	5.16720	6.34410	1.14470	-.00000	.46160	1.13100	.33500	.49810	-.33500	-.79870
1.199	5.86870	7.09280	1.31000	-.05010	.44670	1.10410	.33560	.49900	-.33560	-.76840
1.199	6.62040	7.87050	1.46130	-.12350	.40730	1.07120	.34360	.50480	-.34360	-.72750
1.199	7.42370	8.68100	.47480	-.14340	.28790	1.19990	.30690	.48760	-.30690	-.69290
GRADIENT	.26800	.28705	.00034	-.02135	.01725	-.00785	.00466	.00313	-.00466	-.01233

RUN NO. 1267 0 RM/L = 0.94 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CHN	CLMN	CTN	CTMN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.904	1.22750	1.98820	.10330	-.04900	.27150	.97310	.12290	.44650	-.12290	-.85630
1.904	1.62300	2.37120	.16120	-.03870	.17160	.96320	.13010	.46680	-.13010	-.83300
1.904	2.04550	2.84030	.23800	-.11370	.20680	.97410	.13510	.47570	-.13510	-.83900
1.904	2.50800	3.33920	.29710	-.14700	.22540	1.00890	.14930	.48300	-.14930	-.85450
1.904	3.00120	3.83990	.34450	-.18540	.25420	1.03190	.16200	.48950	-.16200	-.86990
1.904	3.50480	4.27010	.42490	-.26900	.29170	1.05230	.17460	.49740	-.17460	-.87760
1.904	4.02800	4.67750	.50200	-.39070	.33300	1.07320	.18030	.50540	-.18030	-.88600
1.904	4.52370	5.06650	.50450	-.43350	.37000	1.07040	.18030	.51200	-.18030	-.89000
1.904	5.01150	5.44910	.57540	-.52390	.41470	1.06750	.18120	.51630	-.18120	-.89330
1.904	5.59760	5.77900	.60870	-.57690	.45030	1.07610	.18480	.52080	-.18480	-.89120
1.904	6.14630	6.21360	.63150	-.56590	.48600	1.08070	.17830	.52350	-.17830	-.90240
1.904	6.68000	6.68000	.63440	-.52960	.52550	1.03150	.16720	.50100	-.16720	-.88420
GRADIENT	.23665	.20193	.02599	-.03110	.01378	.00651	.00307	.00344	-.00307	-.00344

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

NSPC 567 (PAA) TITAN III C SRM (HNETP)

(237022) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0300 90. IN XREF = 4.6336 IN.  
 LREF = .9000 IN. YREF = .0000 IN.  
 DREF = .9000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 313.000

RUN NO. 11/ 0 RM/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CTH	CTWH	CBL	CA	CAB	KCP/L	CFB1	CAF
3.400	10.360	1.19270	1.64490	.14210	-.12230	.12090	.84370	.04700	.47090	-.06700	.77680
3.400	12.470	1.45910	1.94740	.14850	-.17780	.14490	.86960	.07070	.48260	-.07070	.79880
3.400	14.540	1.79090	2.31040	.16300	-.22450	.16780	.89040	.07310	.48610	-.07310	.81730
3.400	16.590	2.13260	2.69610	.19250	-.24020	.19470	.92370	.07700	.49150	-.07700	.84860
3.400	18.630	2.48450	3.03220	.19630	-.31790	.21750	.94910	.07750	.49580	-.07750	.87160
3.400	20.690	2.83360	3.36790	.21410	-.35000	.24560	.98200	.07760	.50100	-.07760	.90430
3.400	22.770	3.28400	3.73680	.23770	-.41300	.27760	1.01250	.07650	.50560	-.07650	.93600
3.400	24.810	3.69560	4.02620	.29330	-.46680	.30440	1.05340	.07160	.51360	-.07160	.98180
3.400	26.850	4.14990	4.34540	.35600	-.52770	.32960	1.07600	.06710	.51690	-.06710	1.00800
3.400	28.940	4.63170	4.73880	.40040	-.52136	.38370	1.10390	.06080	.52200	-.06080	1.04300
3.400	30.930	5.11260	5.07680	.45130	-.53670	.42030	1.11340	.05440	.52580	-.05440	1.05900
3.400	20.690	2.83310	3.39690	.21420	-.33020	.28230	.99040	.07670	.49980	-.07670	.91370
GRADIENT		.19286	.16757	.01500	-.02184	.01426	.01403	-.00059	.00257	-.00059	.01462

RUN NO. 10/ 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CTH	CTWH	CBL	CA	CAB	KCP/L	CFB1	CAF
4.959	10.360	1.01970	1.40260	.11140	-.21140	.03650	.77690	.03060	.47740	-.03060	.74620
4.959	12.310	1.24690	1.73050	.13770	-.19660	.11170	.80710	.03180	.47580	-.03180	.77520
4.959	14.350	1.50470	1.98830	.12140	-.27230	.11530	.83640	.03340	.48420	-.03340	.80300
4.959	16.330	1.81500	2.22640	.16220	-.33750	.12050	.87010	.03360	.49620	-.03360	.83640
4.959	18.380	2.18500	2.50750	.17570	-.37740	.14640	.91600	.03340	.50620	-.03340	.86260
4.959	20.400	2.55260	2.78780	.21770	-.39690	.18250	.96260	.03210	.51320	-.03210	.93040
4.959	22.450	3.03510	3.06290	.24550	-.46900	.19590	1.02190	.03160	.52380	-.03160	.99030
4.959	24.470	3.45910	3.38530	.30250	-.46750	.26480	1.08160	.03250	.52760	-.03250	1.04920
4.959	26.480	3.91310	3.66940	.33030	-.54300	.27940	1.10520	.03110	.53280	-.03110	1.07400
4.959	28.510	4.38360	4.01190	.38720	-.53630	.31380	1.12840	.02860	.53510	-.02860	1.09980
4.959	30.480	4.81630	4.38820	.42900	-.55720	.36430	1.14340	.02160	.53620	-.02160	1.12160
4.959	20.400	2.55280	2.78800	.21770	-.39730	.19070	.97160	.03030	.51330	-.03030	.94130
GRADIENT		.19294	.14403	.01605	-.01924	.01430	.02007	-.00031	.00341	-.00031	.02036



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 507

PAGE 39

NSFC 507 (PA4) (ITAN 111 C SRN (MBETP))

(R07023) ( 23 APR 74 )

REFERENCE DATA

REF = .036F 90. IN YMRP = 4.6330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 315.000

PARAMETRIC DATA

RUN NO. 145/ 0 RM/L = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.197	31.910	6.08230	7.54260	1.43710	-1.00930	.51090	1.07370	.31900	.50860	-.31900	.75390
1.197	33.940	7.36430	9.19000	1.47140	-1.53300	.56220	1.03740	.35500	.51070	-.35500	.68130
1.197	36.080	8.04800	9.80910	1.46210	-1.29910	.62040	.99850	.38160	.51290	-.38160	.61690
1.197	38.220	8.78290	9.46130	1.51420	-.39230	.67640	.95430	.38740	.51310	-.38740	.56700
1.197	40.360	9.51020	10.13460	1.56610	-.85690	.74040	.89410	.34390	.51660	-.34390	.55010
1.197	42.500	10.14450	10.78140	1.54790	-.66270	.80720	.82360	.30440	.51700	-.30440	.51910
1.197	44.640	10.73700	11.62440	1.46370	-.32350	.89590	.71650	.25130	.51450	-.25130	.46310
1.197	46.790	11.24520	12.20530	1.33850	-.55880	.84760	.69880	.28320	.51410	-.28320	.41590
1.197	48.930	11.60400	12.66040	1.32220	-.86460	.83590	.66320	.30830	.51340	-.30830	.35490
1.197	50.920	12.00220	13.20550	1.36330	-.74490	.83650	.62800	.33610	.51220	-.33610	.29270
1.197	52.930	12.30970	13.50030	1.38720	-.59070	.83640	.55500	.30050	.51180	-.30050	.23520
1.197	42.500	13.14270	10.62740	1.44310	-.49120	.81580	.83000	.30170	.51090	-.30170	.52930
GRADIENT		.27319	.29574	-.00660	-.02932	.01634	-.02345	-.00302	.00006	.00302	-.02243

RUN NO. 12/ 0 RM/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.480	30.980	5.16270	5.04900	.48970	-.58590	.41840	1.11960	.02570	.52770	-.02570	1.09360
3.480	32.990	5.64110	5.39910	.54520	-.61090	.45680	1.13180	.01410	.53030	-.01410	1.11760
3.480	35.070	6.13460	5.83040	.60110	-.63030	.49950	1.14230	.00650	.53120	-.00650	1.13370
3.480	37.140	6.63330	6.19790	.65780	-.66950	.53700	1.14940	-.01090	.53360	.01090	1.15930
3.480	39.190	7.17270	6.60660	.70820	-.68900	.57730	1.15390	-.02510	.53490	.02510	1.17900
3.480	41.280	7.65420	6.94420	.74690	-.69560	.60150	1.15150	-.04670	.53670	.04670	1.19830
3.480	43.370	8.13670	7.30950	.77400	-.66550	.62730	1.13390	-.06870	.53780	.06870	1.20270
3.480	45.420	8.64810	7.66860	.80730	-.63990	.64690	1.11100	-.09690	.53920	.09690	1.20800
3.480	47.480	9.11290	8.00770	.83150	-.67880	.69100	1.07980	-.13270	.54030	.13270	1.21260
3.480	49.550	9.58170	8.28070	.89090	-.69500	.72210	1.04950	-.15920	.54210	.15920	1.20780
3.480	51.550	10.03990	8.59930	.90410	-.65310	.76180	1.00560	-.18200	.54310	.18200	1.19770
3.480	41.270	7.61730	6.92750	.73600	-.62130	.62830	1.16110	-.04610	.53640	.04610	1.20720
GRADIENT		.23816	.17387	.02021	-.00343	.01616	-.00322	-.01042	.00073	.01042	.00322

NSPC 907 (FA4) TITAN III C SRM (MDETP)

(R07024) ( 23 APR 74 )

## REFERENCE DATA

## PARAMETRIC DATA

REF = .0340 IN XREF = 4.0330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 BREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 315.000

RUN NO. 101/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.997	50.450	0.51310	10.56770	3.07400	4.00250	.52950	.24410	.00000	.49440	.00000	.24410
.997	52.350	0.59410	10.48390	2.63920	4.32410	.02570	.14520	.00000	.50110	.00000	.14520
.997	54.330	0.30290	11.00250	2.51920	4.36170	.64860	.09030	.00000	.50180	.00000	.09030
.997	56.330	0.30300	11.49530	2.49630	4.31030	.61510	.06640	.00000	.49640	.00000	.06640
.997	58.350	0.40090	11.83640	2.50740	4.13500	.58020	.03410	.00000	.49350	.00000	.03410
.997	60.390	0.64110	11.99840	2.47310	3.86330	.58320	.00110	.00000	.49400	.00000	.00110
.997	62.390	0.79380	12.19590	2.37030	3.53340	.56000	-.05000	.00000	.49390	.00000	-.05000
.997	64.390	0.89910	12.24440	2.19100	3.22260	.55830	-.04460	.00000	.49490	.00000	-.04460
.997	66.380	0.99370	12.16390	2.04570	2.88880	.57160	-.15130	.00000	.49740	.00000	-.15130
.997	68.380	10.07610	11.93720	1.91110	2.57050	.55010	-.17630	.00000	.50150	.00000	-.17630
.997	70.240	10.12970	11.53360	1.76640	2.22850	.58400	-.18910	.00000	.50740	.00000	-.18910
.997	80.380	9.69640	12.02880	2.48310	3.91280	.59190	.00260	.00000	.49380	.00000	.00260
GRADIENT		.07209	.06939	-.03288	-.12256	-.00183	-.02092	.00000	.00023	.00000	-.02092

RUN NO. 102/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.901	50.760	9.57760	13.59460	1.52760	.07160	.57280	.48480	.00000	.47180	.00000	.48480
.901	52.670	9.91380	13.87410	1.39040	-.22600	.58730	.44390	.00000	.47440	.00000	.44390
.901	54.860	10.22900	14.09270	1.37500	-.27080	.60090	.40920	.00000	.47710	.00000	.40920
.901	56.670	10.44330	14.03350	1.29080	-.35100	.58630	.39080	.00000	.48140	.00000	.39080
.901	58.620	10.55820	13.39700	1.18300	-.45210	.58170	.41300	.00000	.49090	.00000	.41300
.901	60.590	10.69190	12.36770	1.14760	-.33670	.61080	.43720	.00000	.50510	.00000	.43720
.901	62.980	10.76830	11.76280	1.19780	-.29050	.60980	.46690	.00000	.51320	.00000	.46690
.901	64.550	10.90160	11.53910	1.26640	-.23100	.61980	.42550	.00000	.51750	.00000	.42550
.901	66.510	11.20310	11.16500	1.32280	-.15530	.64840	.41380	.00000	.52530	.00000	.41380
.901	68.500	11.38780	10.62270	1.41650	-.13250	.66030	.40160	.00000	.53340	.00000	.40160
.901	70.400	11.53240	10.30420	1.48900	-.13310	.68530	.37450	.00000	.53640	.00000	.37450
.901	80.590	10.63880	12.34160	1.12310	-.30780	.60330	.43240	.00000	.50470	.00000	.43240
GRADIENT		.09096	-.20899	-.00176	-.00037	.00503	-.00269	.00000	.00373	.00000	-.00269

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 507

NSFC 507 (FAA) TITAN III C SRM (INDETP)

PARAMETRIC DATA

BETA = .000 PHI = 315.000

REFERENCE DATA

REF = .3100 IN INEP = 4.0300 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 BREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

RUN NO. 103/ 0 RM/L = 0.60 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.199	30.790	11.20800	12.07190	1.21190	-.00470	.72940	.04380	.00000	.51510	.00000	.04380
1.199	32.700	11.04130	12.36470	1.21130	-.03400	.73070	.01570	.00000	.51700	.00000	.01570
1.199	34.700	11.05930	12.60040	1.21430	-.03650	.74060	.74410	.00000	.51730	.00000	.74410
1.199	36.720	12.27940	12.60020	.77640	-.03620	.72960	.72040	.00000	.51890	.00000	.72040
1.199	38.710	12.03500	13.06120	1.35090	-.01830	.75110	.68940	.00000	.52060	.00000	.68940
1.199	40.720	12.07770	13.04220	1.37050	-.04950	.75700	.61290	.00000	.52330	.00000	.61290
1.199	42.710	13.04730	12.70860	1.40570	-.06730	.76440	.58670	.00000	.53140	.00000	.58670
1.199	44.690	13.23860	12.56120	1.39490	-.06730	.77290	.56430	.00000	.53560	.00000	.56430
1.199	46.680	13.33120	12.38370	1.41030	-.07720	.78070	.53200	.00000	.54040	.00000	.53200
1.199	48.650	13.01430	12.12480	1.45350	-.07080	.81340	.49640	.00000	.54510	.00000	.49640
1.199	50.570	14.14180	11.88450	1.48630	-.71270	.83340	.62030	.00000	.52420	.00000	.62030
1.199	52.570	12.06750	12.94200	1.30280	-.07040	.75890	.01857	.00000	.00151	.00000	.01857
GRADIENT		.13912	-.01698	.01474	.01437	.00463					

RUN NO. 249/ 0 RM/L = 0.93 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.941	30.650	10.50300	6.75750	1.09140	-1.21200	.72420	1.02030	.00000	.54870	.00000	1.02030
1.941	32.540	11.10170	9.04200	1.13500	-1.22060	.74620	.99640	.00000	.54840	.00000	.99640
1.941	34.500	11.62310	9.39620	1.21350	-1.24240	.76540	.96500	.00000	.54920	.00000	.96500
1.941	36.590	12.16990	9.66980	1.28210	-1.25760	.79890	.94110	.00000	.55090	.00000	.94110
1.941	38.610	12.73530	9.90020	1.35470	-1.24720	.83440	.91390	.00000	.55220	.00000	.91390
1.941	40.640	13.19600	10.18880	1.40020	-1.24660	.86030	.87390	.00000	.55350	.00000	.87390
1.941	42.620	13.45580	10.29370	1.44380	-1.20090	.89170	.83120	.00000	.55470	.00000	.83120
1.941	44.640	13.65060	10.39820	1.48000	-1.21730	.89730	.79670	.00000	.55650	.00000	.79670
1.941	46.630	14.22230	10.56770	1.52770	-1.21030	.91440	.76320	.00000	.55740	.00000	.76320
1.941	48.650	14.47260	10.57280	1.54260	-1.23250	.92310	.71840	.00000	.55900	.00000	.71840
1.941	50.530	14.76810	10.62910	1.57020	-1.24840	.94360	.68776	.00000	.56050	.00000	.68776
1.941	52.590	12.93080	9.85550	1.37930	-1.23630	.84170	.06190	.00000	.55500	.00000	.06190
GRADIENT		.21064	.09436	.02449	-.00041	.01134	-.01705		.00066	.00000	-.01705



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## TABULATED SOURCE DATA, NSPC TWT 587

NSPC 507(744) TITAN III C SRM (MNETP)

(R97024) ( 23 APR 74 )

## PARAMETRIC DATA

## REFERENCE DATA

SREF = .300 IN ZMRP = 4.6338 IN.  
 LREF = .9000 IN. ZMRP = .0000 IN.  
 SREF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 315.000

RUN NO. 310/ 0 RM/L = 0.35 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMH	CLMH	CYN	CTMH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	30.460	9.37026	7.62350	.91300	-.99170	.69210	1.12320	.00000	.55079	.00000	1.12320
3.480	32.340	10.02170	7.84000	.95800	-.92390	.70330	1.09930	.00000	.55210	.00000	1.09930
3.480	34.370	10.47760	8.12540	1.00370	-.93630	.74500	1.06850	.00000	.55330	.00000	1.06850
3.480	36.390	10.99830	8.28950	1.05710	-.94890	.75670	1.03450	.00000	.55320	.00000	1.03450
3.480	38.400	11.29970	8.50910	1.08950	-1.00460	.78850	.99230	.00000	.55820	.00000	.99230
3.480	40.390	11.70580	8.73250	1.12000	-1.07480	.81210	.99390	.00000	.55710	.00000	.99390
3.480	42.390	12.00450	8.92090	1.16570	-1.09280	.83490	.90860	.00000	.55800	.00000	.90860
3.480	44.400	12.43840	9.04880	1.20950	-1.10080	.86290	.86100	.00000	.55940	.00000	.86100
3.480	46.400	12.81000	9.13310	1.24800	-1.08700	.88620	.81730	.00000	.56120	.00000	.81730
3.480	48.420	13.16400	9.18990	1.28410	-1.03580	.90780	.77320	.00000	.56310	.00000	.77320
3.480	50.390	13.44120	9.16160	1.32050	-1.02340	.91830	.72810	.00000	.56520	.00000	.72810
3.480	52.390	13.71050	8.74980	1.12680	-1.03910	.93900	.96320	.00000	.55690	.00000	.96320
3.480	54.390	13.9481	.08171	.02026	-.00826	.01221	-.02033	.00000	.00066	.00000	-.02033

GRADIENT

RUN NO. 311/ 0 RM/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMH	CLMH	CYN	CTMH	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	50.310	9.40580	7.30140	.87210	-.82100	.89120	1.23350	.00000	.55320	.00000	1.23350
4.959	52.190	9.88440	7.59990	.91450	-.87060	.71420	1.19890	.00000	.55420	.00000	1.19890
4.959	54.210	10.36590	7.90000	.95790	-.88980	.75680	1.16520	.00000	.55500	.00000	1.16520
4.959	56.220	10.79390	8.19000	.98730	-.90230	.76890	1.12800	.00000	.55540	.00000	1.12800
4.959	58.220	11.23180	8.56370	.97260	-.96270	.79060	1.07120	.00000	.55510	.00000	1.07120
4.959	60.230	11.58870	8.75760	1.07290	-.93950	.81260	1.03300	.00000	.55580	.00000	1.03300
4.959	62.230	12.01810	9.04840	1.08650	-1.01050	.84600	.96000	.00000	.55620	.00000	.96000
4.959	64.230	12.38050	9.10450	1.11840	-1.00430	.86790	.92020	.00000	.55840	.00000	.92020
4.959	66.230	12.77060	9.24800	1.16450	-.98810	.86430	.86590	.00000	.55990	.00000	.86590
4.959	68.250	13.17280	9.29340	1.18390	-.94510	.89960	.83370	.00000	.56220	.00000	.83370
4.959	70.150	13.40270	9.31040	1.20150	-.93350	.90770	.76180	.00000	.56360	.00000	.76180
4.959	72.150	13.61790	8.87260	1.07150	-.94180	.82890	1.03960	.00000	.55480	.00000	1.03960
4.959	74.150	13.8195	.10566	.01896	-.00642	.01094	-.02385	.00000	.00046	.00000	-.02385

GRADIENT



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 987

NSFC 987 (FA4) TITAN III C SRM (MBETP)

(187023) ( 23 APR 74 )

PARAMETRIC DATA

REFERENCE DATA

BREF = .6300 94. IN INSP = 4.6330 IN.  
 LREF = .9000 IN. ZREF = .0000 IN.  
 BREF = .9000 IN. ZREF = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 315.000

RUN NO. 180/ 0 RM/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CP31	CAF
70.430	9.94480	11.21990	1.83220	2.10540	.56460	-.10210	.00000	.50070	.00000	-.10210
72.310	9.91630	10.61980	1.64730	1.79080	.57020	-.08560	.00000	.51600	.00000	-.08560
74.270	9.92450	9.91110	1.55090	1.27600	.58050	-.08840	.00000	.52310	.00000	-.08840
76.230	9.93780	8.59210	1.34940	.35480	.60940	.04970	.00000	.54120	.00000	.04970
78.240	9.98040	8.05600	1.45030	.38930	.60980	.03620	.00000	.54830	.00000	.03620
80.230	9.92300	7.61660	1.54180	.33400	.61840	.01010	.00000	.55340	.00000	.01010
82.210	9.81900	7.12040	1.59380	.71800	.60640	.04040	.00000	.55970	.00000	.04040
84.260	9.99810	6.51860	1.68140	.72860	.59680	.08170	.00000	.56810	.00000	.08170
86.180	9.97410	5.87280	1.68520	.63560	.58960	.09180	.00000	.57700	.00000	.09180
88.170	10.05980	5.36940	1.66710	.61440	.60640	.08800	.00000	.58390	.00000	.08800
90.070	10.09180	4.83910	1.57410	.51620	.60110	.09720	.00000	.59080	.00000	.09720
90.230	9.90670	7.59720	1.51630	.55640	.60380	.02150	.00000	.55340	.00000	.02150
GRADIENT	.00681	-.32257	.00012	-.08119	.00118	.01058	.00000	.00416	.00000	.01058

RUN NO. 179/ 0 RM/L = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CP31	CAF
70.350	11.31760	10.24890	1.47300	-.21050	.69070	.43590	.00000	.53890	.00000	.43590
72.440	11.64080	9.97360	1.48070	-.22380	.70450	.40530	.00000	.54300	.00000	.40530
74.410	11.69480	9.66370	1.54480	-.22820	.71930	.39090	.00000	.54690	.00000	.39090
76.400	11.86330	9.43910	1.58340	-.25950	.74130	.31470	.00000	.55080	.00000	.31470
78.400	11.99100	9.25510	1.60920	-.28720	.73890	.28330	.00000	.55380	.00000	.28330
80.390	12.12440	9.05960	1.63520	-.28430	.74610	.26040	.00000	.55690	.00000	.26040
82.380	12.19030	8.70830	1.63640	-.28880	.73390	.23530	.00000	.56110	.00000	.23530
84.350	12.22330	8.24630	1.63520	-.39010	.71280	.21340	.00000	.56610	.00000	.21340
86.320	12.28090	7.62900	1.65760	-.46450	.70370	.21110	.00000	.57290	.00000	.21110
88.300	12.30880	7.09340	1.82680	-.46660	.71110	.19430	.00000	.57850	.00000	.19430
90.170	12.31980	6.52960	1.49630	-.52340	.71770	.16680	.00000	.58440	.00000	.16680
90.390	12.07900	9.01220	1.62210	-.27410	.74420	.26420	.00000	.55700	.00000	.26420
GRADIENT	.04315	-.18818	.00543	-.01489	.00010	-.01271	.00000	.00823	.00000	-.01271

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 507

PAGE 40

NSFC 507 (F44) TITAN III C SRM (HNETP)

(R07029) ( 23 APR 74 )

## REFERENCE DATA

## PARAMETRIC DATA

SREF = .0300 IN. INRP = 4.6330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

BETA = .000  
 PHI = 315.000

RUN NO. 178/ 0 RM/L = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTW	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
1.197	70.700	13.61650	11.62710	1.46350	-.67748	.84260	.54900	.00000	.54508	.00000	.54500
1.197	72.590	14.10710	11.40800	1.50350	-.70770	.85000	.51200	.00000	.54950	.00000	.51200
1.197	74.500	14.31430	11.30490	1.55910	-.72790	.87380	.48200	.00000	.55150	.00000	.48200
1.197	76.540	14.49780	11.02170	1.61370	-.76570	.87480	.44600	.00000	.55530	.00000	.44600
1.197	78.920	14.67920	10.69090	1.67500	-.78930	.89260	.42860	.00000	.55960	.00000	.42860
1.197	80.320	14.81820	10.27590	1.71800	-.83010	.89510	.40400	.00000	.56370	.00000	.40400
1.197	82.490	14.92970	9.84390	1.74790	-.85440	.89060	.39140	.00000	.56720	.00000	.39140
1.197	84.470	15.11520	9.56700	1.75490	-.87910	.91130	.37840	.00000	.57140	.00000	.37840
1.197	86.420	15.22710	9.10000	1.76980	-.91350	.92780	.36080	.00000	.57360	.00000	.36080
1.197	88.420	15.24050	8.67340	1.75500	-.94500	.94380	.37460	.00000	.57940	.00000	.37460
1.197	90.300	15.25770	8.34970	1.71320	-.98640	.95090	.33330	.00000	.58220	.00000	.33330
1.197	90.320	14.91160	10.26340	1.71260	-.82720	.89470	.40490	.00000	.56360	.00000	.40490
GRADIENT		.07366	-.17474	.01472	-.01530	.00314	-.00966	.00000	.00195	.00000	-.00966

RUN NO. 248/ 0 RM/L = 6.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTW	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
1.930	70.070	14.42360	10.25110	1.54080	-1.23030	.93160	.71660	.00000	.56150	.00000	.71660
1.930	72.560	14.72040	10.32870	1.55670	-1.25610	.94520	.66160	.00000	.56270	.00000	.66160
1.930	74.970	14.91310	10.26600	1.56150	-1.27370	.94550	.64180	.00000	.56420	.00000	.64180
1.930	76.960	15.11630	10.14610	1.59110	-1.29320	.95320	.62060	.00000	.56850	.00000	.62060
1.930	78.950	15.31720	10.01090	1.61870	-1.30780	.96550	.57280	.00000	.56880	.00000	.57280
1.930	80.960	15.42260	9.83040	1.63510	-1.29150	.97620	.53230	.00000	.57080	.00000	.53230
1.930	82.950	15.37650	9.71360	1.66660	-1.20800	.98370	.48180	.00000	.57250	.00000	.48180
1.930	84.940	15.28900	9.49100	1.68370	-1.24640	.96410	.43510	.00000	.57440	.00000	.43510
1.930	86.910	15.75290	9.37950	1.70880	-1.23420	.97110	.38710	.00000	.57610	.00000	.38710
1.930	88.910	15.71600	9.09330	1.71340	-1.22390	.96680	.32310	.00000	.57820	.00000	.32310
1.930	90.980	15.73860	8.90230	1.70810	-1.19920	.97040	.26100	.00000	.57990	.00000	.26100
1.930	90.940	15.40540	9.82710	1.73890	-1.29780	.97290	.53090	.00000	.57070	.00000	.53090
GRADIENT		.06951	-.07341	.00953	.00236	.00162	-.07263	.00000	.00056	.00000	-.07263

DATE 11 JUL 74

**LABULATED SOURCE DATA, NSFC TWT 387**

MSFC 907(PA4) TTYAM 111 C 32N (MSBETP)

(1297025) ( 23 APR 74 )

## PARAMETRIC DATA

VL3A 3 319.000 PHI = 319.000

## REFERENCE DATA

0027	=	.160 IN	WHP	=	4.630 IN.
0027	=	.000 IN.	WHP	=	.0000 IN.
0027	=	.000 IN.	WHP	=	.0000 IN.
SCALE	=	.0074			

GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CMS	CLIM	CYN	CYEN	CBL	CA	CAB	XCP/L	CPS1	CAP
WACH	13.37230	9.06120	1.30808	-1.00990	.90240	.78080	.00000	.58350	.00000	.78080
3.3.400	78.460	9.06200	1.33708	-1.00410	.92240	.73020	.00000	.56730	.00000	.73020
3.3.400	72.340	9.06200	1.33708	-1.00410	.92240	.73020	.00000	.56730	.00000	.73020
3.3.400	74.360	9.06480	1.35250	-1.03470	.92240	.67630	.00000	.56908	.00000	.67630
3.3.400	76.380	9.08000	1.36760	-1.05300	.84570	.62810	.00000	.57020	.00000	.62810
3.3.400	78.330	9.34890	1.37150	-1.07830	.95900	.57020	.00000	.57240	.00000	.57020
3.3.400	80.370	9.89450	1.39410	-1.06270	.88030	.50830	.00000	.57400	.00000	.50830
3.3.400	82.340	10.82340	1.40950	-1.03910	.99800	.45820	.00000	.57530	.00000	.45820
3.3.400	84.360	11.81320	1.41240	-1.04210	1.00320	.40740	.00000	.57670	.00000	.40740
3.3.400	86.330	12.76440	1.43070	-1.03560	.99900	.34150	.00000	.57800	.00000	.34150
3.3.400	88.340	13.81550	1.42850	-1.04030	1.02700	.27490	.00000	.59020	.00000	.27490
3.3.400	90.310	14.80260	1.42610	-1.09950	1.03150	.20970	.00000	.59170	.00000	.20970
3.3.400	92.340	15.84820	1.38780	-1.10740	1.06410	.15120	.00000	.57420	.00000	.15120
3.3.400	94.340	16.90070	.00603	.00443	.00682	-.02849	.00000	.00081	.00000	-.02849
62A01CWT	.07274	-.04660								

RUN NO. 312/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 507

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NSFC 507 (FAC) TITAN III C SRN (HSETP)

(R07028) ( 23 APR 74 )

## REFERENCE DATA

REF = .0368 94. IN ZMRP = 4.6330 IN.  
LREF = .0000 IN. YMRP = .0000 IN.  
BREF = .0000 IN. ZMRP = .0000 IN.  
SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 235/ 0 RM/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWN	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.500	109.530	9.01320	-4.4690	1.36220	-.02700	.61420	-.23500	.00000	.63600	.00000	-.23500
.500	107.640	9.15730	-.03680	1.36430	-.72630	.62130	-.16420	.00000	.63200	.00000	-.16420
.500	105.630	9.27810	.48560	1.36650	-.49030	.62810	-.08120	.00000	.64310	.00000	-.08120
.500	103.680	9.45010	.90220	1.36340	-.72320	.64200	.03770	.00000	.63940	.00000	.03770
.500	101.680	9.51190	1.30210	1.41370	-.76670	.64130	.15210	.00000	.63420	.00000	.15210
.500	99.650	9.66110	1.70370	1.45200	-.91930	.63340	.27290	.00000	.62920	.00000	.27290
.500	97.640	9.79630	2.07770	1.46220	-.93810	.64620	.36130	.00000	.62450	.00000	.36130
.500	95.670	9.79400	2.48030	1.56820	-.1.12670	.64410	.35960	.00000	.61940	.00000	.35960
.500	93.700	9.61920	2.90720	1.64290	-.93330	.64610	.31060	.00000	.61400	.00000	.31060
.500	91.690	9.86390	3.39090	1.67970	-.85010	.63880	.28580	.00000	.60800	.00000	.28580
.500	89.620	9.92800	3.89370	1.63300	-.49460	.63440	.26980	.00000	.60180	.00000	.26980
.500	87.670	9.98040	1.71910	1.44680	-.89330	.66670	.26230	.00000	.62880	.00000	.26230
GRADIENT		-.04568	-.21436	-.01785	-.00106	-.00135	-.02915	.00000	.00275	.00000	-.02915

RUN NO. 236/ 0 RM/L = 5.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWN	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.902	109.310	11.29210	1.68890	1.73970	-.60220	.74870	-.24890	.00000	.63250	.00000	-.24890
.902	107.430	11.47120	2.19920	1.77070	-.61090	.76500	-.12700	.00000	.62720	.00000	-.12700
.902	105.440	11.60910	2.70020	1.77810	-.58900	.76600	-.00570	.00000	.62200	.00000	-.00570
.902	103.460	11.92520	3.22880	1.79260	-.57030	.77770	.11120	.00000	.61690	.00000	.11120
.902	101.450	11.96700	3.72710	1.80300	-.54430	.78360	.19310	.00000	.61210	.00000	.19310
.902	99.480	12.01160	4.24280	1.81630	-.57090	.77860	.22820	.00000	.60680	.00000	.22820
.902	97.500	12.03870	4.72770	1.81400	-.58720	.77670	.22630	.00000	.60180	.00000	.22630
.902	95.520	12.05870	5.18370	1.80180	-.57920	.76700	.21440	.00000	.59710	.00000	.21440
.902	93.540	12.14420	5.63190	1.79280	-.55960	.75760	.23490	.00000	.59260	.00000	.23490
.902	91.570	12.14940	6.23710	1.81170	-.55370	.75230	.24760	.00000	.58650	.00000	.24760
.902	89.730	12.19290	7.13940	1.77930	-.47740	.75090	.21690	.00000	.57720	.00000	.21690
.902	87.900	12.04320	4.25640	1.81090	-.80290	.79030	.23490	.00000	.60680	.00000	.23490
GRADIENT		-.04389	-.26396	-.00213	-.00405	.00043	-.02210	.00000	.00266	.00000	-.02210

TABULATED SOURCE DATA, NSFC TUT 307

DATE 11 JUL 74

(1907020) ( 23 APR 74 )

NSFC 507 (P44) TITAN III C SRM (MRETP)

PARAMETRIC DATA

BETA = .000 PHI = 313.000

REFERENCE DATA

BREF = .0360 IN XHP = 4.0330 IN.  
LREF = .0000 IN. YHP = .0000 IN.  
BREF = .0000 IN. ZHP = .0000 IN.  
SCALE = .0074

RUN NO. 237/ 0 RN/L = 0.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLWN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.203	109.230	13.82070	5.13340	1.99390	-.96070	.07980	-.90730	.00000	.60430	.00000	-.50730
1.203	107.340	14.02120	5.47430	2.05720	-.51310	.09380	-.37470	.00000	.60210	.00000	-.37470
1.203	105.330	14.22990	5.82090	2.11610	-.30700	.09910	-.23540	.00000	.59970	.00000	-.23540
1.203	103.360	14.35020	6.10220	2.13390	-.32410	.09720	-.11910	.00000	.59770	.00000	-.11910
1.203	101.360	14.32170	6.39500	2.16440	-.56040	.09180	-.00220	.00000	.59570	.00000	-.00220
1.203	99.330	14.61360	6.59960	2.17220	-.56560	.09160	.14060	.00000	.59430	.00000	.11080
1.203	97.380	14.66976	6.76040	2.17270	-.59180	.09290	.21870	.00000	.59300	.00000	.21870
1.203	95.380	14.74398	6.97240	2.17800	-.61390	.04390	.30550	.00000	.59160	.00000	.30550
1.203	93.390	14.86000	7.27170	2.17900	-.64170	.04546	.36580	.00000	.58950	.00000	.36580
1.203	91.390	14.95180	7.67120	2.17360	-.66430	.04040	.41710	.00000	.58630	.00000	.41710
1.203	89.330	14.97450	8.10940	2.17720	-.65110	.04330	.45540	.00000	.58290	.00000	.45540
1.203	87.370	14.97260	8.62250	2.16270	-.57820	.02710	.10870	.00000	.59400	.00000	.10870
1.203	GRADIENT	-.05621	-.13610	-.00756	.00751	-.00346	-.04977	.00000	.00099	.00000	-.04977

RUN NO. 260/ 0 RN/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLWN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.950	109.190	13.74920	5.49360	1.97970	-.60690	.08510	-.52680	.00000	.60090	.00000	-.52680
1.950	107.310	14.04590	5.79350	2.00930	-.62990	.08600	-.42460	.00000	.59940	.00000	-.42460
1.950	105.300	14.28540	6.18120	2.04910	-.67100	.09120	-.31340	.00000	.59670	.00000	-.31340
1.950	103.300	14.53700	6.51020	2.08730	-.71420	.04290	-.20940	.00000	.59480	.00000	-.20940
1.950	101.290	14.89130	6.83230	2.13060	-.78360	.06830	-.09390	.00000	.59340	.00000	-.09390
1.950	99.300	15.06340	7.16740	2.13400	-.80930	.06790	-.00340	.00000	.59130	.00000	-.00340
1.950	97.310	15.24480	7.48190	2.15000	-.84900	.07640	.08680	.00000	.58940	.00000	.08680
1.950	95.330	15.32500	7.75990	2.14740	-.87610	.08730	.16790	.00000	.58740	.00000	.16790
1.950	93.330	15.31660	8.04140	2.16300	-.91890	.08990	.25080	.00000	.58590	.00000	.25080
1.950	91.320	15.36620	8.25810	2.17630	-.96880	1.00520	.32680	.00000	.58430	.00000	.32680
1.950	89.450	15.67040	8.51400	2.19030	-.97950	.09890	.36980	.00000	.58270	.00000	.36980
1.950	87.320	14.93330	7.16950	2.11600	-.80630	.05890	-.02030	.00000	.59070	.00000	-.02030
1.950	GRADIENT	-.09755	-.15436	-.00989	.01989	-.00621	-.04675	.00000	.00093	.00000	-.04675

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

NSFC 507 (744) TITAN III C 38M (HDET7)

(007026) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN XWP = 4.0330 IN.  
 LREF = .0000 IN. YWP = .0000 IN.  
 BREF = .0000 IN. ZWP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

ETA = .000 PHI = 313.000

RUN NO. 270/ 0 RM/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CHS	CLWN	CTN	CTWN	CSL	CA	CAB	XCP/L	CPB1	CAF
3.400	109.420	12.01140	5.04340	1.58900	-33640	.06620	-.48170	.00000	.00200	.00000	-.48170
3.400	107.540	13.21500	5.29710	1.63970	-39840	.09160	-.38200	.00000	.00070	.00000	-.38200
3.400	105.510	13.51250	5.57400	1.64330	-44430	.00130	-.27790	.00000	.00930	.00000	-.27790
3.400	103.510	13.80830	5.87910	1.72390	-47530	.04260	-.19230	.00000	.00760	.00000	-.19230
3.400	101.510	14.06580	6.20450	1.74960	-52630	.01600	-.10370	.00000	.00560	.00000	-.10370
3.400	99.500	14.25920	6.60790	1.77930	-56620	.02310	-.02290	.00000	.00280	.00000	-.02290
3.400	97.530	14.34930	6.86030	1.76950	-64200	.09330	.06860	.00000	.00100	.00000	.06860
3.400	95.520	14.45190	7.12120	1.80310	-63950	.05330	.14800	.00000	.00910	.00000	.14800
3.400	93.540	14.55420	7.36130	1.80950	-63100	.03330	.21690	.00000	.00730	.00000	.21690
3.400	91.530	14.66990	7.69040	1.81740	-64680	.00950	.28720	.00000	.00510	.00000	.28720
3.400	89.600	14.73520	7.91870	1.83970	-63390	.01440	.34300	.00000	.00330	.00000	.34300
3.400	87.520	14.84680	8.64300	1.77800	-58700	.00830	-.02110	.00000	.00250	.00000	-.02110
GRADIENT		-.00979	-.14667	-.01159	.01621	-.00202	-.04180	.00000	.00097	.00000	-.04180

RUN NO. 271/ 0 RM/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CHS	CLWN	CTN	CTWN	CSL	CA	CAB	XCP/L	CPB1	CAF
4.999	109.640	12.09400	5.17700	1.43440	-32450	.06720	-.53760	.00000	.00070	.00000	-.53760
4.999	107.760	13.16340	5.40670	1.46380	-38640	.08080	-.43450	.00000	.00950	.00000	-.43450
4.999	105.740	13.48280	5.60440	1.53360	-36430	.09330	-.33940	.00000	.00690	.00000	-.33940
4.999	103.740	13.74210	5.92490	1.57400	-38890	.01030	-.22170	.00000	.00690	.00000	-.22170
4.999	101.720	14.03140	6.22780	1.63050	-46590	.04000	-.12730	.00000	.00330	.00000	-.12730
4.999	99.740	14.23270	6.42530	1.63720	-45650	.05550	-.04030	.00000	.00430	.00000	-.04030
4.999	97.740	14.37780	6.65500	1.68360	-46360	.09330	.03630	.00000	.00290	.00000	.03630
4.999	95.720	14.49330	6.93130	1.70980	-51460	.09740	.13120	.00000	.00990	.00000	.13120
4.999	93.740	14.55000	7.11670	1.70600	-47020	.04460	.19940	.00000	.00960	.00000	.19940
4.999	91.730	14.38010	7.28090	1.73090	-42440	.05590	.27080	.00000	.00820	.00000	.27080
4.999	89.690	14.63730	7.41220	1.72860	-39560	.02820	.32300	.00000	.00740	.00000	.32300
4.999	87.740	14.17910	6.52260	1.69860	-45650	.06170	-.04250	.00000	.00330	.00000	-.04250
GRADIENT		-.00873	-.11725	-.01544	.00499	-.00390	-.04387	.00000	.00070	.00000	-.04387



TABULATED SOURCE DATA, NSPC TWT 557

DATE 11 JUL 74

(1877027) (23 APR 74)

NSPC 507 (FA0) TITAN III C 3RM (HSETP)

PARAMETRIC DATA

REFERENCE DATA

REF = .6300 IN INRP = 4.6330 IN.  
 LREF = .9000 IN. YREF = .0000 IN.  
 REF = .9000 IN. ZREF = .0000 IN.  
 SCALE = .0074

BETA =

.000

PHI = 313.000

RUN NO. 234/ 0 RM/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLIN	CTN	CTYN	CBL	CA	CAB	XCP/L	CPB1	CAF
.000	129.460	7.17630	-4.14460	1.13020	-6.0760	.47610	-.93340	.00000	.72460	.00000	-.93340
.000	127.550	7.49220	-4.09350	1.11620	-9.1290	.50610	-.89950	.00000	.72060	.00000	-.89950
.000	125.540	7.84320	-4.04350	1.09610	-1.19950	.52610	-.77680	.00000	.71700	.00000	-.77680
.000	123.540	8.10360	-3.79840	1.03250	-1.62040	.51170	-.72210	.00000	.71080	.00000	-.72210
.000	121.550	8.31840	-3.38130	.93290	-1.31370	.54690	-.64250	.00000	.70290	.00000	-.64250
.000	119.530	8.59590	-2.95910	.86940	-1.40240	.58310	-.53670	.00000	.69500	.00000	-.53670
.000	117.570	8.70970	-2.25590	1.18240	-1.12690	.56630	-.43670	.00000	.68430	.00000	-.43670
.000	115.560	8.85620	-1.71710	1.30600	-.90140	.57190	-.35610	.00000	.67600	.00000	-.35610
.000	113.590	8.99900	-1.26720	1.34930	-.84340	.56750	-.28940	.00000	.66930	.00000	-.28940
.000	111.580	9.13120	-.83300	1.33390	-.80670	.59570	-.23560	.00000	.66300	.00000	-.23560
.000	109.700	9.23290	-.42810	1.34830	-.76930	.58640	-.16800	.00000	.65730	.00000	-.16800
.000	119.560	8.56160	-2.79010	.94290	-1.34640	.55960	-.55610	.00000	.69270	.00000	-.55610
GRADIENT		-.10163	-.20735	-.01610	-.01466	-.00556	-.03997	.00000	.00365	.00000	-.03997

RUN NO. 233/ 0 RM/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLIN	CTN	CTYN	CBL	CA	CAB	XCP/L	CPB1	CAF
.001	129.230	6.71240	-2.52780	1.13010	-1.37030	.58590	-1.23710	.00000	.68620	.00000	-1.23710
.001	127.330	6.08860	-2.19130	1.10100	-1.36770	.60260	-1.16590	.00000	.68190	.00000	-1.16590
.001	125.320	9.44750	-1.88670	1.16160	-1.20420	.62260	-1.08520	.00000	.67680	.00000	-1.08520
.001	123.330	9.76820	-1.54160	1.22770	-1.16870	.64660	-.98120	.00000	.67150	.00000	-.98120
.001	121.320	10.06270	-1.13040	1.32920	-1.03700	.67830	-.87010	.00000	.66370	.00000	-.87010
.001	119.310	10.31620	-.83450	1.47910	-.86320	.68790	-.75760	.00000	.66170	.00000	-.75760
.001	117.320	10.34300	-.24580	1.58600	-.71830	.70230	-.63460	.00000	.65440	.00000	-.63460
.001	115.330	10.92780	.41270	1.64600	-.69510	.71960	-.54170	.00000	.64670	.00000	-.54170
.001	113.350	11.09810	.90720	1.65420	-.67920	.72330	-.43330	.00000	.64110	.00000	-.43330
.001	111.370	11.21290	1.43340	1.66230	-.70160	.72830	-.31130	.00000	.63530	.00000	-.31130
.001	109.500	11.36410	1.91280	1.68370	-.70460	.73420	-.20270	.00000	.63020	.00000	-.20270
.001	119.320	10.39140	-.68210	1.53340	-.88450	.69550	-.77350	.00000	.65950	.00000	-.77350
GRADIENT		-.13508	-.22816	-.03480	-.04069	-.00763	-.05339	.00000	.00295	.00000	-.05339



(R07027) ( 23 APR 74 )

NSFC 3070744 TITAN III C SRK (M0ETP)

PARAMETRIC DATA

REFERENCE DATA

REF = .0300 SA. IN XREF = 4.0330 IN.  
LREF = .0000 IN. YREF = .0000 IN.  
BREF = .0000 IN. ZREF = .0000 IN.  
SCALE = .0074

BETA = .000 PMI = 315.000

RUN NO. 232/ 0 RM/L = 0.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	COL	CA	CAB	KCP/L	CPB1	CAF
1.199	129.100	10.00200	.73300	1.57000	-.91200	.67440	-1.49460	.00000	.61200	.00000	-1.49400
1.199	127.240	11.12316	.97130	1.62200	-.85440	.70810	-1.42190	.00000	.64040	.00000	-1.42190
1.199	125.230	11.59070	1.32340	1.65010	-.87630	.74580	-1.32490	.00000	.63700	.00000	-1.32490
1.199	123.230	12.00210	1.91650	1.70140	-.94560	.78040	-1.23130	.00000	.63240	.00000	-1.23130
1.199	121.230	12.51990	2.26040	1.76700	-.97930	.79380	-1.12990	.00000	.62450	.00000	-1.12990
1.199	119.220	12.92480	2.63650	1.82190	-.95300	.81120	-1.01480	.00000	.62370	.00000	-1.01480
1.199	117.240	13.27540	3.24560	1.86470	-.87040	.83700	-.89840	.00000	.62050	.00000	-.89840
1.199	115.250	13.49410	3.61240	1.95010	-.81530	.86110	-.78660	.00000	.61760	.00000	-.78660
1.199	113.250	13.67360	3.92260	1.98450	-.72590	.88370	-.66430	.00000	.61320	.00000	-.66430
1.199	111.250	13.84310	4.32660	2.02590	-.64770	.89550	-.53650	.00000	.61140	.00000	-.53650
1.199	109.350	13.99130	4.76660	2.06210	-.63350	.88830	-.41910	.00000	.60840	.00000	-.41910
1.199	119.240	12.90390	2.46600	1.82160	-.93370	.80450	-1.01410	.00000	.62340	.00000	-1.01410
GRADIENT		-.17081	-.21119	-.02601	-.01306	-.01060	-.05437	.00000	.00179	.00000	-.05437

RUN NO. 261/ 0 RM/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	COL	CA	CAB	KCP/L	CPB1	CAF
1.950	129.200	9.99250	2.69490	1.36700	-.33440	.64690	-1.51230	.00000	.61730	.00000	-1.51230
1.950	127.370	10.42040	3.00300	1.42590	-.30860	.67730	-1.43130	.00000	.61500	.00000	-1.43130
1.950	125.330	10.93330	3.31160	1.50680	-.30750	.71370	-1.34270	.00000	.61310	.00000	-1.34270
1.950	123.310	11.50520	3.56180	1.59030	-.31920	.74310	-1.25890	.00000	.61230	.00000	-1.25890
1.950	121.290	11.86970	3.91380	1.63470	-.33280	.76920	-1.15370	.00000	.61080	.00000	-1.15370
1.950	119.270	12.34530	4.03120	1.70370	-.39080	.81020	-1.04610	.00000	.61010	.00000	-1.04610
1.950	117.270	12.59250	4.28240	1.74980	-.41520	.82190	-.92400	.00000	.60840	.00000	-.92400
1.950	115.260	12.84040	4.52410	1.80610	-.46520	.84460	-.80950	.00000	.60730	.00000	-.80950
1.950	113.250	13.36730	4.78900	1.86120	-.50810	.87530	-.69370	.00000	.60610	.00000	-.69370
1.950	111.250	13.67460	5.11110	1.90720	-.54620	.88990	-.57770	.00000	.60420	.00000	-.57770
1.950	109.350	12.91090	5.42440	1.93400	-.56730	.89440	-.47250	.00000	.60210	.00000	-.47250
1.950	119.310	12.10140	4.19440	1.67290	-.34930	.78340	-1.02740	.00000	.60800	.00000	-1.02740
GRADIENT		-.19736	-.13124	-.02890	.01402	-.01283	-.05299	.00000	.00069	.00000	-.05299



DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 567

PAGE 47

NSPC 507 (FA4) TITAN III C SRH (INTEP)

(097027) (23 APR 74)

## REFERENCE DATA

REF = .336 34. IN XREF = 4.6336 IN.  
 LREF = .9000 IN. YREF = .0000 IN.  
 BREF = .9000 IN. ZREF = .0000 IN.  
 SCALE = .9074

## PARAMETRIC DATA

BETA = .000 PHI = 315.00%

RUN NO. 273/ 0 RM/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CIN	CLIN	CYN	CYIN	CBL	CA	CAB	KCP/L	CPBI	CAF
3.400	129.480	9.03250	2.76600	1.09260	.06760	.98250	-1.50240	.00000	.61270	.00000	-1.50240
3.400	129.590	9.43400	2.98430	1.15640	.01290	.63210	-1.39050	.00000	.61150	.00000	-1.39050
3.400	129.560	9.91390	3.26530	1.22510	.00130	.68630	-1.27990	.00000	.60980	.00000	-1.27990
3.400	129.540	10.32920	3.52160	1.27550	-.01320	.69550	-1.17460	.00000	.60830	.00000	-1.17460
3.400	121.530	10.75970	3.76030	1.30640	-.04910	.69880	-1.06600	.00000	.60720	.00000	-1.06600
3.400	119.520	11.15660	4.04470	1.33840	-.08510	.71160	-.95960	.00000	.60560	.00000	-.95960
3.400	117.530	11.52270	4.26190	1.36980	-.14670	.75220	-.84730	.00000	.60480	.00000	-.84730
3.400	115.500	11.93030	4.49700	1.43510	-.19620	.77040	-.73320	.00000	.60390	.00000	-.73320
3.400	113.520	12.29030	4.75110	1.47300	-.25430	.80700	-.63060	.00000	.60250	.00000	-.63060
3.400	111.490	12.63860	5.02700	1.52350	-.31020	.82480	-.52540	.00000	.60110	.00000	-.52540
3.400	109.610	12.95600	5.30210	1.57280	-.34370	.83660	-.43690	.00000	.59970	.00000	-.43690
3.400	119.340	11.11640	4.03720	1.34490	-.09820	.70860	-.95050	.00000	.60550	.00000	-.95050
GRADIENT		-.19775	-.12616	-.02282	.02066	-.01212	-.05360	.00000	.00064	.00000	-.05360

RUN NO. 272/ 0 RM/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CIN	CLIN	CYN	CYIN	CBL	CA	CAB	KCP/L	CPBI	CAF
4.939	129.070	8.80210	3.03160	1.00730	.08170	.60440	-1.56750	.00000	.60790	.00000	-1.56750
4.939	127.780	9.23940	3.20660	1.05040	.05700	.61360	-1.47320	.00000	.60760	.00000	-1.47320
4.939	125.750	9.74990	3.42740	1.10790	.01010	.64100	-1.35190	.00000	.60700	.00000	-1.35190
4.939	123.750	10.20470	3.68530	1.14960	.00190	.67350	-1.23280	.00000	.60600	.00000	-1.23280
4.939	121.720	10.63780	3.95020	1.22160	-.08260	.72040	-1.11150	.00000	.60450	.00000	-1.11150
4.939	119.720	11.06670	4.21780	1.28430	-.13730	.74890	-.98370	.00000	.60340	.00000	-.98370
4.939	117.740	11.46790	4.37660	1.27790	-.14600	.76380	-.85350	.00000	.60320	.00000	-.85350
4.939	115.710	11.87220	4.64830	1.32000	-.18560	.78440	-.75210	.00000	.60190	.00000	-.75210
4.939	113.730	12.24230	4.87080	1.34810	-.23180	.82080	-.62200	.00000	.60110	.00000	-.62200
4.939	111.710	12.61890	5.09600	1.42000	-.28820	.84030	-.50460	.00000	.60040	.00000	-.50460
4.939	109.620	12.96380	5.39760	1.46180	-.34960	.86630	-.41700	.00000	.59980	.00000	-.41700
4.939	119.740	11.03880	4.18950	1.24820	-.06960	.71820	-.99460	.00000	.60340	.00000	-.99460
GRADIENT		-.20896	-.11988	-.02216	.02116	-.01361	-.05926	.00000	.00046	.00000	-.05926

TABULATED SOURCE DATA, NSPC TWT 987

DATE 11 JUL 74

(097020) 1 23 APR 74 1

NSPC 907 (744) TITAN III C SHK (MBETP)

PARAMETRIC DATA

BETA = .000 PRI = 315.000

REFERENCE DATA

SIZE = .0300 IN. TMRP = 4.0330 IN.  
 LREF = .0000 IN. TMRP = .0000 IN.  
 BREF = .0000 IN. TMRP = .0000 IN.  
 SCALE = .0074

RUN NO. 100/ 0 RM/L = 0.82 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CWN	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.198	147.910	0.73060	-1.47640	1.00330	-0.61430	.45940	-2.02060	.41260	.07920	-0.41260	-2.43330
1.198	147.910	0.73060	-1.47640	1.00330	-0.61430	.45940	-2.02060	.41260	.07920	-0.41260	-2.43330
1.198	145.890	7.42440	-1.17730	1.42590	-1.28790	.50220	-1.99760	.43760	.67150	-0.43760	-2.36750
1.198	145.760	0.10980	-0.84970	1.28430	-1.85480	.54260	-1.94200	.42330	.66470	-0.42330	-2.36750
1.198	141.620	0.77190	-0.71870	1.29470	-2.14540	.58000	-1.89240	.39470	.66180	-0.39470	-2.28310
1.198	139.480	0.47920	-0.39900	1.34390	-2.38400	.60980	-1.82640	.38810	.65890	-0.38810	-2.21250
1.198	137.300	10.15280	-0.43790	1.64280	-2.06890	.62870	-1.77430	.40540	.65690	-0.40540	-2.17970
1.198	135.220	10.60150	-0.27700	1.67280	-1.91440	.66400	-1.70670	.43400	.65400	-0.43400	-2.14080
1.198	133.130	10.98350	-0.16120	1.65910	-1.84040	.68070	-1.62600	.42200	.65330	-0.42200	-2.04080
1.198	131.040	11.32340	-0.02980	1.69260	-1.71270	.70550	-1.53990	.40590	.65180	-0.40590	-1.94080
1.198	129.020	11.64710	.10770	1.73570	-1.59500	.73580	-1.44120	.38810	.65030	-0.38810	-1.82930
1.198	127.050	11.89350	.21560	1.81060	-1.35110	.74970	-1.32590	.32340	.64920	-0.32340	-1.64930
1.198	137.310	10.11210	-0.47910	1.62560	-2.06740	.61790	-1.76640	.39130	.65750	-0.39130	-2.13770
GRADIENT		-0.23108	-0.07559	-0.01973	.01513	-0.01362	-0.03264	.00264	.00126	-0.00264	-0.03320

RUN NO. 45/ 0 RM/L = 0.31 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CWN	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	149.010	4.88900	.90500	.58710	.02290	.32130	-2.13700	.07350	.62700	-0.07350	-2.21080
3.480	147.040	5.16310	1.12320	.64440	.01150	.35370	-2.11310	.07420	.62390	-0.07420	-2.18740
3.480	144.980	5.65310	1.24200	.70910	.02370	.36930	-2.07450	.07070	.62370	-0.07070	-2.14330
3.480	142.910	6.11170	1.33120	.77440	.01010	.41330	-2.00990	.06710	.62360	-0.06710	-2.07710
3.480	140.830	6.63330	1.48730	.82590	.02200	.42560	-1.93320	.06170	.62310	-0.06170	-2.01490
3.480	138.740	7.09610	1.60360	.87760	.02840	.46060	-1.88220	.05820	.62290	-0.05820	-1.94040
3.480	136.680	7.58100	1.75890	.92920	.00100	.50940	-1.80290	.05700	.62210	-0.05700	-1.85990
3.480	134.580	8.06590	1.86760	.98190	-0.0010	.52680	-1.72360	.05830	.62220	-0.05830	-1.78390
3.480	132.530	8.55580	2.01780	1.03340	-0.0140	.56350	-1.63570	.05680	.62160	-0.05680	-1.69260
3.480	130.440	9.02000	2.24370	1.08250	.01180	.59230	-1.55410	.05520	.62000	-0.05520	-1.60940
3.480	128.450	9.50480	2.42390	1.14760	.00360	.60640	-1.47260	.05320	.61920	-0.05320	-1.50380
3.480	138.740	7.09360	1.58300	.87810	.02110	.44650	-1.88350	.06190	.62320	-0.06190	-1.94750
GRADIENT		-0.23313	-0.06903	-0.02659	.00110	-0.01440	-0.03385	.00106	.00226	-0.00106	-0.03491



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TABULATED SOURCE DATA, NSFC TUT 307

NSFC 307(FA4) TITAN III C 3RN (MBETP)

(1897029) (23 APR 74)

PARAMETRIC DATA

REF = .0360 IN XMRP = 4.4330 IN.  
LREF = .0000 IN. YMRP = .0000 IN.  
BREF = .0000 IN. ZMRP = .0000 IN.  
SCALE = .0074

BETA = .000 PHI = 313.000

RUN NO. 97/ D RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
169.490	.93430	-1.37690	.47040	.34000	.09000	-1.21510	-.04100	.03000	.04100	-1.17410
167.970	1.13840	-1.55220	.70750	.46740	.09590	-1.27000	-.02230	.02400	.02230	-1.24950
165.950	1.42460	-1.61640	.95130	.70780	.10350	-1.35370	-.00160	.79510	.00160	-1.33210
163.930	1.71290	-1.61950	1.17710	.91720	.10300	-1.41050	-.01530	.77110	-.01530	-1.42590
161.400	2.05600	-1.69440	1.43220	1.06320	.10120	-1.45020	-.02320	.75560	-.02320	-1.47590
159.420	2.44280	-1.64410	1.65080	1.06220	.11920	-1.47900	-.04670	.73670	-.04670	-1.52380
157.370	2.86130	-1.60740	1.86450	.84240	.13430	-1.45240	-.06820	.72616	-.06820	-1.52000
155.350	3.30970	-1.72480	2.14050	.44300	.13690	-1.43250	-.08930	.71740	-.08930	-1.52090
153.260	3.85670	-1.76760	2.42960	.22910	.16030	-1.38470	-.10660	.70950	-.10660	-1.49130
151.210	4.30290	-1.69750	2.65390	-.02560	.17050	-1.36040	-.12960	.70050	-.12960	-1.49030
149.230	4.67600	-1.71670	2.68460	-.34470	.20910	-1.33210	-.16480	.69610	-.16480	-1.49700
159.420	2.45550	-1.64480	1.86920	1.05300	.12920	-1.47160	-.04630	.73630	-.04630	-1.52000
GRADIENT	-.19639	.01312	-.11897	.03592	-.00537	.00479	-.00960	.00712	.00960	.01440

RUN NO. 98/ D RN/L = 6.21 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
169.380	1.09150	-.95280	.55400	.37690	.09000	-1.39880	.02280	.76170	-.02280	-1.42160
167.430	1.34110	-1.06120	.79690	.54620	.09630	-1.46770	.05320	.75160	-.05320	-1.52090
165.390	1.63950	-1.07490	1.10710	.75720	.12430	-1.54970	.06590	.73450	-.06590	-1.61570
163.310	1.97920	-1.12010	1.36900	.63800	.12400	-1.60510	.06370	.72310	-.06370	-1.66880
161.230	2.36640	-1.19500	1.56700	.84550	.13680	-1.64510	.09590	.71540	-.09590	-1.74110
159.150	2.79660	-1.32420	1.74590	.33840	.13690	-1.66470	.12940	.71140	-.12940	-1.79420
157.030	3.35210	-1.44130	2.01390	-.02030	.16780	-1.67890	.16470	.70590	-.16470	-1.84370
154.920	3.86480	-1.78480	2.20330	.14640	.20500	-1.64980	.17610	.70990	-.17610	-1.82590
152.810	4.25830	-2.38400	2.03690	.36770	.25370	-1.59760	.16640	.72230	-.16640	-1.78600
150.690	4.74390	-2.90610	1.85270	.14040	.31440	-1.55460	.17690	.72900	-.17690	-1.73150
148.640	5.22240	-3.41190	1.71290	-.23990	.37960	-1.51590	.17250	.73420	-.17250	-1.68020
159.130	2.86700	-1.33880	1.76100	.30090	.15380	-1.67320	.14420	.71060	-.14420	-1.81940
GRADIENT	-.20442	.11006	-.06478	.03468	-.01267	.00514	-.00803	.00129	.00803	.01317

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TABULATED SOURCE DATA, NSFC TUT 397

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NSFC 5871F44) TITAN III C SRW (MRETP)

( 23 APR 74 )

## REFERENCE DATA

REF = .6368 IN XWP = 4.6330 IN.  
 LREF = .9000 IN. YWP = .0000 IN.  
 REF = .9000 IN. ZWP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 315.000

## PARAMETRIC DATA

RUN NO. 99/ 0 RM/L = 6.82 GRADIENT INTERVAL = -5.00/ 3.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
1.201	169.240	1.32920	-1.01280	.73970	.46630	.09580	-1.89260	.14760	.74790	-.14760	-2.03030
1.201	167.270	1.68220	-1.09770	1.04900	.71100	.12090	-1.93310	.17840	.73410	-.17840	-2.10890
1.201	165.180	2.15610	-1.13130	1.41190	.85220	.14450	-1.96560	.18930	.71780	-.18930	-2.15490
1.201	163.040	2.68990	-1.11990	1.68270	1.04660	.17630	-1.99340	.20450	.70420	-.20420	-2.19760
1.201	160.920	3.28230	-1.23090	1.93320	1.28130	.20960	-2.01870	.21130	.69920	-.21130	-2.24000
1.201	158.780	3.81330	-1.42680	2.13590	1.43010	.26260	-2.02740	.23470	.69880	-.23470	-2.28220
1.201	156.620	4.37090	-1.59300	2.16390	1.19850	.30430	-2.03980	.25300	.69760	-.25300	-2.29280
1.201	154.480	4.93680	-1.87540	2.13310	.94800	.34870	-2.04770	.28840	.69440	-.28840	-2.33310
1.201	152.350	5.49840	-1.76630	1.98260	.51380	.40200	-2.05410	.32380	.69230	-.32380	-2.37790
1.201	150.210	6.13210	-1.67280	1.90690	.14770	.44010	-2.03920	.36810	.68600	-.36810	-2.40740
1.201	148.160	6.74440	-1.56630	1.66410	-.51630	.48210	-2.02070	.40870	.68090	-.40870	-2.42750
1.201	158.730	3.84030	-1.43500	2.13660	1.40960	.26670	-2.01870	.22190	.69880	-.22190	-2.24060
GRADIENT		-.23860	-.03619	-.04551	.03638	-.01893	.00645	-.01140	.00267	.01140	.01795

RUN NO. 113/ 0 RM/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
1.980	169.290	1.12800	-.79260	.50090	.50700	.10760	-1.90620	.08470	.74070	-.08470	-1.99100
1.980	167.310	1.52350	-.55620	.68480	.75130	.13020	-1.92000	.10020	.69770	-.10020	-2.02030
1.980	165.230	1.93770	-.40350	.82790	.79120	.16780	-1.93820	.11940	.67760	-.11940	-2.07770
1.980	163.080	2.47840	-.35840	.92680	.73870	.19870	-2.00610	.12330	.66980	-.12430	-2.13040
1.980	161.000	2.91370	-.18180	.90920	.52390	.22480	-1.99690	.13740	.65940	-.13740	-2.13440
1.980	158.850	3.42840	-.11730	.89980	.29440	.26670	-2.03220	.15820	.65580	-.15620	-2.18840
1.980	156.740	3.93190	-.02840	.86240	.06210	.29470	-2.04310	.17680	.65060	-.17680	-2.22000
1.980	154.630	4.42150	.20930	.85520	-.14500	.32720	-2.03940	.19330	.64530	-.19330	-2.23470
1.980	152.490	4.99470	.38580	.87580	-.31510	.36100	-2.03070	.20020	.64170	-.20020	-2.25090
1.980	150.380	5.49120	.58660	.89390	-.38280	.37920	-2.02870	.19230	.63800	-.19230	-2.22110
1.980	148.360	6.03140	.79620	.94200	-.38940	.40700	-2.01820	.18370	.63560	-.18370	-2.20190
1.980	158.980	3.41700	-.06790	.88200	.27490	.26840	-2.01730	.15900	.63400	-.15900	-2.17630
GRADIENT		-.23477	-.08920	-.01286	.08265	-.01467	.00597	-.00556	.00400	.00516	.01153

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TABULATED SOURCE DATA, NSFC TWT 507

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NSFC 507 (FAA) TITAN III C 3RM (HNETP)

(R07029) ( 23 APR 74 )

## REFERENCE DATA

REF = .0380 IN. INRIP = 4.6330 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 BREF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 41/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLWN	CTN	CTWN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	169.530	.79550	-.14520	.21700	.22440	.09150	-1.07430	.06610	.67460	-.06610	-1.94050
3.400	167.590	1.95500	-.03670	.27430	.24090	.11050	-1.91490	.06800	.65590	-.06800	-1.90300
3.400	165.540	1.36460	.02660	.32100	.20240	.12400	-1.94440	.06970	.64900	-.06970	-2.01310
3.400	163.510	1.68810	.09780	.37350	.19510	.14560	-1.96850	.07130	.64410	-.07130	-2.03990
3.400	161.430	2.07310	.17120	.39320	.14250	.16840	-2.00060	.07310	.64100	-.07310	-2.07360
3.400	159.370	2.44410	.26650	.42220	.10750	.18560	-2.02470	.07760	.63770	-.07760	-2.10230
3.400	157.310	2.84170	.36070	.45670	.04240	.22760	-2.05550	.07610	.63540	-.07610	-2.13160
3.400	155.240	3.27760	.46190	.49040	.01050	.25100	-2.07320	.06980	.63360	-.06980	-2.14500
3.400	153.190	3.75210	.62520	.52290	-.00160	.26650	-2.08490	.06110	.63040	-.06110	-2.15610
3.400	151.100	4.19970	.76190	.54800	.29280	.29280	-2.11290	.05450	.62890	-.05450	-2.16690
3.400	149.110	4.65070	.90130	.60480	.07350	.29760	-2.12270	.04750	.62690	-.04750	-2.17030
3.400	159.370	2.43210	.25950	.42960	.07700	.19820	-2.02310	.07610	.63000	-.07610	-2.09930
GRADIENT		-.19035	-.04935	-.01742	.01196	-.01089	.01216	.00075	.00190	-.00075	.01140

RUN NO. 42/ 0 RM/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLWN	CTN	CTWN	CBL	CA	CAB	KCP/L	CPB1	CAF
4.999	169.630	.61290	-.04680	.17730	.13310	.08590	-1.84820	.02350	.66110	-.02350	-1.86950
4.999	167.710	.01470	.02680	.20850	.11790	.11130	-1.88500	.02500	.64730	-.02500	-1.91010
4.999	165.690	1.10240	.11510	.23480	.14620	.09950	-1.92700	.02550	.63630	-.02550	-1.95260
4.999	163.700	1.36160	.25020	.27750	.13830	.13190	-1.95790	.02530	.62820	-.02530	-1.98320
4.999	161.650	1.70630	.36510	.30950	.06140	.16300	-1.97830	.02600	.62440	-.02600	-2.00540
4.999	159.630	2.05010	.48150	.33760	.04500	.18010	-2.00230	.02600	.62180	-.02600	-2.02840
4.999	157.600	2.48150	.58100	.38220	.02140	.21430	-2.02530	.02450	.62160	-.02450	-2.04990
4.999	155.570	2.88300	.75970	.42410	.00250	.22750	-2.05230	.02070	.61910	-.02070	-2.07310
4.999	153.560	3.37080	.92110	.45200	.08550	.22260	-2.10010	.01620	.61690	-.01620	-2.11640
4.999	151.530	3.82970	1.06750	.49450	.10740	.26060	-2.12590	.01020	.61620	-.01020	-2.13610
4.999	149.560	4.25190	1.18590	.53610	.17440	.26980	-2.13560	.00230	.61600	-.00230	-2.13820
4.999	159.630	2.09200	.45210	.35210	.06690	.15300	-2.02010	.02230	.62360	-.02230	-2.04240
GRADIENT		-.18393	-.04304	-.01788	.00113	-.00960	.01427	.00092	.00197	-.00092	.01336

NSPC 987(PAA) TITAN III C SRM (MMETP)

(887030) ( 23 APR 74 )

## REFERENCE DATA

REF = .0368 10. IN XREF = 4.6330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 SREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 94/ 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.001	190.030	-.74200	1.48770	.10140	-.01290	-.18620	-1.02310	-.08300	.90180	.09500	-.93810
.001	188.100	-.50690	1.24520	.12300	.06270	-.16230	-.95680	-.09580	.96240	.09580	-.90100
.001	186.090	-.39030	.94060	.10490	.16200	-.12340	-.94740	-.11020	.95640	.11020	-.93720
.001	184.090	-.25370	.61960	.08840	.19620	-.08940	-.94910	-.11460	.96010	.11460	-.93450
.001	182.040	-.13330	.31850	.06440	.13490	-.05940	-.94690	-.11350	.91400	.11350	-.93330
.001	179.990	.04630	-.03370	.05900	.14430	-.04640	-.95360	-.11340	.74920	.11340	-.93810
.001	177.940	.18670	-.33350	.06300	.14680	-.01670	-.96960	-.10960	.87750	.10960	-.97970
.001	175.940	.30610	-.62230	.06300	.11210	.03410	-1.02080	-.11090	.90880	.11090	-.90900
.001	173.910	.46910	-.84330	.06300	.15700	.04210	-1.08320	-.11290	.87030	.11290	-.97030
.001	171.890	.63630	-1.05870	.15600	.28900	.04230	-1.13980	-.08990	.86210	.08990	-1.04900
.001	169.930	.82610	-1.27600	.44420	.37780	.02060	-1.20850	-.03330	.82610	.03330	-1.17310
.001	179.990	.04620	.00690	.05990	.12340	-.03890	-.95650	-.11220	.63240	.11220	-.84430
GRADIENT		-.07627	.14147	-.00659	-.01167	-.01188	.00943	-.00128	.00619	.00128	-.01070

RUN NO. 95/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.903	190.130	-.91780	1.10110	.28130	.06610	-.17270	-1.17910	-.01470	.80330	.01470	-1.16440
.903	188.170	-.64920	.86620	.12320	.06860	-.13680	-1.13430	-.03300	.82030	.03300	-1.10130
.903	186.140	-.45260	.68400	.08980	.17500	-.09620	-1.08880	-.03270	.84270	.03270	-1.03610
.903	184.090	-.31260	.52460	.05460	.17320	-.06060	-1.07140	-.08760	.86370	.08760	-1.00360
.903	182.060	-.14700	.31510	.07110	.14370	-.01960	-1.06630	-.08490	.92280	.08490	-.98130
.903	179.990	.04120	.11610	.06960	.10990	.01160	-1.06900	-.09350	.89300	.09350	-.99340
.903	177.950	.20600	-.10300	.06840	.12740	.03870	-1.12750	-.09170	.76390	.09170	-1.03580
.903	175.900	.35930	-.45320	.04260	.15120	.06240	-1.18540	-.09120	.81160	.09120	-1.09410
.903	173.860	.54250	-.61990	.07470	.21340	.07430	-1.24840	-.08270	.79610	.08270	-1.16370
.903	171.800	.79910	-.75180	.26700	.24870	.07920	-1.31360	-.08430	.77050	.08430	-1.23930
.903	169.820	1.09840	-.89230	.56010	.39220	.08020	-1.39050	-.01340	.75540	.01340	-1.37700
.903	179.990	.05360	.08430	.07590	.11930	.03990	-1.08950	-.09470	.45270	.09470	-.99080
GRADIENT		-.09132	.10165	-.00073	-.01035	-.01316	.01135	.00099	.00377	-.00099	.01035

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TABULATED SOURCE DATA, NSFC TUT 587

(N97030) ( 23 APR 74 )

NSFC 587 (FAA) TITAN III C SRM (MDETP)

PARAMETRIC DATA

BETA = .000 PHI = 315.000

REFERENCE DATA

REF = .6308 38. IN XMRP = 4.6338 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 SREF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

RUN NO. 94/ 0 RM/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	190.230	-1.04370	1.44460	.19440	.23960	-.21480	-1.60920	.12600	.82670	-.12600	-1.01210
1.197	189.280	-.75220	1.21600	.10090	.12690	-.18990	-1.64920	.10020	.89610	-.10020	-1.74990
1.197	188.210	-.54790	.89570	.06100	.02730	-.11010	-1.60810	.10540	.85610	-.10540	-1.71330
1.197	184.120	-.34110	.55540	.02780	.02440	-.04600	-1.60170	.09640	.83790	-.09640	-1.69610
1.197	182.070	-.14000	.23190	.02790	.04420	-.03020	-1.60030	.09570	.86110	-.09570	-1.68610
1.197	179.980	.09090	.02120	.05400	.12060	.01860	-1.61960	.06590	.62200	-.06590	-1.70390
1.197	177.910	.28270	-.24490	.05910	.10640	.04580	-1.66100	.02490	.76090	-.02490	-1.74600
1.197	175.840	.46930	-.52920	.09190	.01310	.07190	-1.69120	.10240	.78640	-.10240	-1.79360
1.197	173.770	.75950	-.68350	.23430	.07230	.07450	-1.75110	.12560	.76370	-.12560	-1.87670
1.197	171.690	1.07670	-.80390	.47080	.24010	.09270	-1.82030	.14760	.74600	-.14760	-1.96600
1.197	169.600	1.36880	-.97310	.75880	.48240	.10550	-1.87890	.15900	.74150	-.15900	-2.03800
1.197	179.970	.11920	.02470	.04980	.09760	.02360	-1.61310	.08550	.62320	-.08550	-1.69660
1.197	GRADIENT	-.11175	.12120	-.02276	-.00620	-.01559	.01023	-.00186	.00607	.00186	.01209

RUN NO. 112/ 0 RM/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.980	190.260	-.99670	1.26260	.06200	.13230	-.18390	-1.74930	.04900	.81160	-.04900	-1.79840
1.980	189.270	-.70460	1.06670	.05760	.07720	-.13300	-1.70700	.04570	.84310	-.04570	-1.75270
1.980	188.210	-.49330	.78370	.03350	.02660	-.08670	-1.67240	.04240	.85250	-.04240	-1.71480
1.980	184.120	-.32130	.53840	.00790	.00280	-.05250	-1.68310	.03080	.86340	-.03080	-1.71400
1.980	182.060	-.19270	.25650	-.00070	.02020	-.02310	-1.69360	.02970	.86410	-.02970	-1.71940
1.980	179.990	.01120	-.03710	.02450	.07420	.00460	-1.71140	.02440	1.06920	-.02440	-1.73590
1.980	177.920	.17480	-.29510	.04640	.05760	.03620	-1.75140	.02680	.86540	-.02680	-1.78030
1.980	175.860	.34760	-.53350	.09390	-.00710	.05810	-1.76490	.02640	.85300	-.02640	-1.79340
1.980	173.790	.56900	-.72190	.15350	.08960	.07480	-1.81150	.03740	.81210	-.03740	-1.84900
1.980	171.710	.82260	-.81320	.35190	.20700	.09460	-1.86470	.05970	.77660	-.05970	-1.92440
1.980	169.710	1.14290	-.76790	.50030	.47010	.12300	-1.90030	.08070	.73650	-.08070	-1.98100
1.980	179.990	.02890	-.02840	.02900	.06930	.01790	-1.67890	.02470	.77830	-.02470	-1.70370
1.980	GRADIENT	-.09543	.10987	-.01627	-.01205	-.01414	.00695	-.00067	.00345	.00067	.00980



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## TABULATED SOURCE DATA, MUPC TUT 507

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MUPC 507(744) TITAN III C SRM (MDETP)

(R07030) ( 25 APR 74 )

## REFERENCE DATA

REF 1 : .0100 IN ZMRP = 4.4330 IN.  
 REF 2 : .0000 IN. YMRP = .0000 IN.  
 REF 3 : .0000 IN. ZMRP = .0000 IN.  
 SCALE : .0074

## PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 44/ 0 RM/L = 6.32 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYNN	CBL	CA	CAB	ICP/L	CPB1	CAF
3.400	190.200	-7.0570	.58120	.02900	.00500	-.10760	-1.76100	.05920	.74510	-.05320	-1.01620
3.400	188.270	-.50220	.57370	.03060	.03940	-.07730	-1.74630	.05200	.77660	-.05200	-1.79840
3.400	186.240	-.41810	.49340	.01366	.04250	-.06370	-1.72890	.04640	.80080	-.04640	-1.77330
3.400	184.210	-.29270	.36310	-.00920	.02260	-.04590	-1.72460	.04110	.80850	-.04110	-1.76570
3.400	182.180	-.17920	.22850	-.01870	.01710	-.01350	-1.72700	.03810	.81140	-.03810	-1.75510
3.400	180.150	-.07670	.09520	-.01630	-.01020	-.01560	-1.74560	.03690	.79210	-.03690	-1.74460
3.400	178.120	.05040	-.17020	-.01340	-.03610	.02050	-1.75370	.03760	.72630	-.03760	-1.79340
3.400	176.090	.17940	-.22490	.00120	-.00160	.02490	-1.79390	.03970	.77150	-.03970	-1.83560
3.400	174.060	.33720	-.2490	.03960	.04310	.04190	-1.80630	.04700	.73590	-.04700	-1.85340
3.400	172.030	.50930	-.21430	.14140	.14240	.06040	-1.83490	.05710	.70470	-.05710	-1.89200
3.400	170.070	.77080	-.14490	.21740	.21030	.07440	-1.87200	.06390	.67530	-.06390	-1.93600
3.400	168.160	-.08820	.09270	-.00290	-.03050	-.01400	-1.73770	.03850	.76450	-.03850	-1.77620
GRADIENT		-.07007	.04620	-.00695	-.00444	-.00679	.00591	-.00028	.00446	.00026	.00619

RUN NO. 43/ 0 RM/L = 4.97 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYNN	CBL	CA	CAB	ICP/L	CPB1	CAF
4.999	190.100	-.62710	.45130	-.01940	-.00010	-.06510	-1.71260	.01970	.74260	-.01970	-1.73260
4.999	188.190	-.48290	.49270	-.00250	-.00450	-.05770	-1.70490	.01750	.78050	-.01750	-1.72240
4.999	186.190	-.39790	.41370	-.00200	-.03500	-.03530	-1.67650	.01620	.78310	-.01620	-1.69280
4.999	184.180	-.28460	.28730	-.01550	-.00050	-.04580	-1.68440	.01390	.77930	-.01390	-1.69840
4.999	182.190	-.17220	.22110	-.02830	-.00740	-.02970	-1.69940	.01470	.81400	-.01470	-1.71420
4.999	180.190	-.11660	.12560	-.04150	.00090	-.01320	-1.70490	.01490	.78800	-.01490	-1.71990
4.999	178.140	-.00090	.00060	-.01090	.01830	.03450	-1.70760	.01470	.75730	-.01470	-1.72230
4.999	176.130	.08490	-.10990	.00680	.01830	.03490	-1.73030	.01470	.81330	-.01470	-1.74500
4.999	174.140	.20490	-.10700	.06320	.04160	.04760	-1.75560	.01670	.71810	-.01670	-1.77240
4.999	172.180	.40090	-.12470	.09130	.11720	.04840	-1.78900	.01920	.69020	-.01920	-1.80430
4.999	170.170	.55510	-.16960	.16370	.15640	.07640	-1.80960	.02380	.69020	-.02380	-1.83340
4.999	168.190	-.14240	.11350	-.01280	.01610	-.02360	-1.70430	.01670	.75220	-.01670	-1.72110
GRADIENT		-.05534	.03705	-.00686	-.00880	-.00739	.00519	-.00014	.00365	.00014	.00532



DATE 13 JUL 74

1807031 ( 23 APR 74 )

1807031 ( 23 APR 74 )

PARAMETRIC DATA

BETA = .000 PHI = 292.500

REFERENCE DATA

REF = .0360 IN XMRP = 4.0330 IN.  
LREF = .0000 IN. YMRP = .0000 IN.  
BREF = .0000 IN. ZMRP = .0000 IN.  
SCALE = .0074

RUN NO. 147/ 0 RM/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CTM	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	-10.170	-1.20720	-1.29980	-1.0520	.48470	-.09690	1.21920	.21390	.51520	-.21390	1.80520
1.197	-8.220	-.98320	-.95830	-.20910	.49740	-.07910	1.20180	.20730	.52840	-.20730	.99450
1.197	-6.180	-.72200	-.62350	-.22010	.48090	-.05430	1.18110	.18950	.54220	-.18950	.99280
1.197	-4.100	-.50060	-.30930	-.22780	.43690	-.03010	1.15430	.17630	.57330	-.17630	.97800
1.197	-2.070	-.28700	-.02520	-.24640	.47190	-.00770	1.13010	.17390	.64040	-.17390	.95620
1.197	-.010	-.08720	.25300	-.21790	.36360	.01420	1.14280	.19150	.99230	-.19150	.95120
1.197	2.030	-.15200	.51350	-.19790	.27860	.04210	1.17480	.19530	.22400	-.19530	.97950
1.197	4.090	.31620	.84300	-.20790	.34020	.07640	1.17030	.20870	.31410	-.20870	.96160
1.197	6.140	.54000	1.28190	-.22910	.30930	.11110	1.20690	.22540	.35110	-.22540	.98150
1.197	8.200	.73370	1.68220	-.28500	.50590	.13460	1.22670	.24070	.36210	-.24070	.98590
1.197	10.180	.99250	2.02750	-.25320	.35350	.16290	1.24320	.25550	.38290	-.25550	.98970
1.197	GRADIENT	-.07700	.28120	-.22110	.39780	.01760	1.12480	.17520	1.08030	-.17520	.94950
		.10130	.13897	-.00432	-.01891	.01285	.00375	.00422	-.04566	-.00422	-.00046

RUN NO. 14/ 0 RM/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CTM	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	-10.280	-1.21050	-1.54850	.09900	.03400	-.12170	.77310	.06830	.46950	-.06830	.70470
3.480	-8.300	-.91320	-1.24350	.06160	.05220	-.09260	.76210	.06130	.47910	-.06130	.70070
3.480	-6.250	-.62870	-.90430	.02150	-.00690	-.08530	.74530	.05570	.46940	-.05570	.68980
3.480	-4.230	-.39700	-.63450	.00320	.03920	-.05280	.72470	.05090	.44920	-.05090	.67360
3.480	-2.170	-.18930	-.31240	-.03010	.02590	-.02760	.70630	.04730	.44260	-.04730	.65900
3.480	-.130	.02760	.04640	-.01990	.02990	.00770	.71490	.04340	.43910	-.04340	.67140
3.480	1.090	.19500	.35360	-.02900	.00680	.02860	.73290	.04560	.42200	-.04560	.68730
3.480	3.930	.39780	.63220	-.00490	.02890	.05290	.76690	.05050	.45030	-.05050	.71640
3.480	5.960	.64060	.99750	.00470	.01060	.10130	.79630	.05350	.43440	-.05350	.74080
3.480	8.030	.93470	1.36060	.00760	-.03970	.12390	.82220	.06010	.46720	-.06010	.76200
3.480	9.990	1.21390	1.68410	.03130	-.07310	.14500	.83870	.06550	.47590	-.06550	.77310
3.480	GRADIENT	.01520	.03700	-.01990	.03620	.02310	.71540	.04260	.34470	-.04260	.67270
		.09684	.15700	-.00075	-.00199	.01312	.00543	-.00012	-.00090	.00012	.00356

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

TABULATED SOURCE DATA, NSFC TWT 507

DATE 11 JUL 74

(R07032) (23 APR 74)

NSFC 567 (F44) TITAN III C 82X (H02TP)

PARAMETRIC DATA

BETA = .000 PHI = 292.500

REFERENCE DATA

REF = .6300 30. IN THRP = 4.6330 IN.  
 LREF = .9000 IN. THRP = .0000 IN.  
 BREF = .9000 IN. THRP = .0000 IN.  
 SCALE = .0074

RUN NO. 146/ 8 RM/L = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CTN	CTNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.199	10.710	.97150	1.97750	-.20930	.24020	.17420	1.23200	.22710	.39390	-.22710	1.00490
1.199	12.490	1.29700	2.35990	-.21000	.26080	.22020	1.24610	.24620	.41950	-.24620	.99990
1.199	14.730	1.66350	2.70490	-.22070	.26900	.26930	1.25810	.27300	.44570	-.27300	.98310
1.199	16.940	2.10330	3.12740	-.23240	.31340	.31180	1.23580	.26750	.46330	-.26750	.94030
1.199	18.940	2.61370	3.58070	-.22210	.39330	.35360	1.23000	.30980	.47760	-.30980	.92010
1.199	21.040	3.18730	4.17250	-.13910	.34570	.41690	1.22190	.31310	.46580	-.31310	.90970
1.199	23.200	3.84530	4.87530	.07550	.35480	.46740	1.18600	.31120	.49100	-.31120	.87480
1.199	25.350	4.50190	5.61560	.14750	.31770	.51500	1.16820	.32630	.49360	-.32630	.84153
1.199	27.320	5.25030	6.56110	.19430	.26870	.56860	1.13560	.32910	.49340	-.32910	.80850
1.199	29.880	5.98850	7.36780	.25460	.32390	.61990	1.10270	.33440	.49580	-.33440	.76820
1.199	31.760	6.70340	8.13146	.40010	.34990	.68330	1.06840	.33700	.49980	-.33700	.73130
1.199	21.070	3.19530	4.22610	-.12560	.33290	.42070	1.19860	.26750	.48410	-.26750	.91100
GRADIENT		.27795	.29511	.03116	.00367	.02390	-.00810	.00492	.00449	-.00492	-.01302

RUN NO. 13/ 1 RM/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CTN	CTNN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	10.510	1.16720	1.66410	.04440	-.04980	.12700	.86080	.06700	.47410	-.06700	.79380
3.400	12.480	1.51830	2.02320	.04950	-.06170	.13980	.88230	.07040	.48270	-.07040	.81190
3.400	14.530	1.83130	2.33190	.04290	-.07010	.17350	.90350	.07360	.49210	-.07360	.82970
3.400	16.590	2.18030	2.67940	.07260	-.10030	.19980	.92510	.07580	.49590	-.07580	.84920
3.400	18.820	2.58820	3.03170	.09670	-.14220	.23370	.95210	.07660	.50320	-.07660	.87350
3.400	20.700	2.98140	3.27830	.13420	-.19470	.27240	.98190	.07690	.51240	-.07690	.90490
3.400	22.760	3.43210	3.59080	.16090	-.18710	.32570	1.02790	.07700	.51980	-.07700	.95090
3.400	24.840	3.91210	3.82760	.18240	-.22490	.37130	1.08720	.07560	.52760	-.07560	.99160
3.400	26.950	4.39680	4.09800	.17570	-.26180	.41340	1.09840	.07290	.53350	-.07290	1.02950
3.400	28.950	4.82280	4.37690	.20250	-.30150	.46450	1.13120	.07070	.53830	-.07070	1.06840
3.400	30.940	5.42960	4.71230	.20440	-.30560	.52790	1.16210	.06760	.54160	-.06760	1.09450
3.400	26.700	2.96890	3.26650	.13450	-.18120	.28470	.98630	.07670	.51220	-.07670	.90960
GRADIENT		.26284	.14932	.00911	-.01406	.01976	.01528	.00001	.00339	-.00001	-.01527

TABULATED SOURCE DATA, NSFC TWT 307  
 NSFC 307 (744) TITAN III C SRN (INDETP)

REFERENCE DATA  
 XREF = .0360 IN XREF = 4.0330 IN.  
 YREF = .0000 IN. YREF = .0000 IN.  
 ZREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

PARAMETRIC DATA  
 BETA = .000 PHI = 292.300

RUN NO. 104/ 0 RN/L = 0.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.194	50.610	11.44930	12.51170	.61170	-.07260	.07010	.09400	.00000	.51320	.00000	.09400
1.194	52.720	11.82830	12.78400	.62770	-.04700	.06560	.08010	.00000	.51470	.00000	.08010
1.194	54.720	12.15960	13.21690	.59760	-.00190	.03530	.01410	.00000	.51390	.00000	.01410
1.194	56.750	12.41000	13.67460	.50880	.01060	.03430	.75660	.00000	.51210	.00000	.75660
1.194	58.760	12.72200	13.96470	.57910	.00670	.03500	.66800	.00000	.51350	.00000	.66800
1.194	60.770	13.01930	13.87460	.59410	.02110	.07240	.61330	.00000	.51660	.00000	.61330
1.194	62.760	13.25420	13.72560	.61630	.06740	.08860	.57670	.00000	.52040	.00000	.57670
1.194	64.730	13.40470	13.29260	.57110	.05700	.09320	.53350	.00000	.52600	.00000	.53350
1.194	66.720	13.69350	13.06770	.52000	.14970	.03010	.53400	.00000	.53050	.00000	.53400
1.194	68.700	13.94960	12.83470	.49800	.19800	.03430	.49060	.00000	.53500	.00000	.49060
1.194	70.580	14.13760	12.45530	.52130	.16090	.07450	.46800	.00000	.54000	.00000	.46800
1.194	60.770	13.01930	13.80890	.59300	.02070	.08660	.62470	.00000	.51720	.00000	.62470
GRADIENT		.13273	-.00593	-.00562	.01180	.00562	-.02256	.00000	.00137	.00000	-.02256

RUN NO. 309/ 0 RN/L = 0.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.480	50.420	10.10160	7.27100	.37870	-.51600	.07020	1.16920	.00000	.56040	.00000	1.16920
3.480	52.330	10.53540	7.56140	.36590	-.52820	.09590	1.13160	.00000	.56040	.00000	1.13160
3.480	54.360	10.99330	7.89220	.40650	-.52370	.03780	1.08790	.00000	.56070	.00000	1.08790
3.480	56.370	11.43510	8.17080	.41410	-.52670	.06140	1.05170	.00000	.56100	.00000	1.05170
3.480	58.380	11.85760	8.45940	.45400	-.50330	1.00330	1.01460	.00000	.56120	.00000	1.01460
3.480	60.380	12.24590	8.70880	.48070	-.49330	1.02910	.96920	.00000	.56150	.00000	.96920
3.480	62.390	12.64010	8.94780	.49550	-.47850	1.05530	.92330	.00000	.56190	.00000	.92330
3.480	64.420	12.97040	9.15230	.51050	-.44200	1.07230	.88360	.00000	.56220	.00000	.88360
3.480	66.420	13.30680	9.33390	.51920	-.43120	1.09210	.83710	.00000	.56270	.00000	.83710
3.480	68.430	13.62360	9.48780	.54070	-.41030	1.10310	.78630	.00000	.56330	.00000	.78630
3.480	70.510	13.87230	9.53530	.54960	-.40470	1.11770	.73360	.00000	.56450	.00000	.73360
3.480	60.380	12.22120	8.87600	.47470	-.46430	1.04550	.97290	.00000	.56160	.00000	.97290
GRADIENT		.19061	.11702	.00930	.00664	.01236	-.02146	.00000	.00019	.00000	-.02146

DATE 11 JUL 74

TABULATED SOURCE DATA, NOSC TWT 507

PAGE 30

NOSC 967 (TAA) TITAN III C SRM (NOSTP)

(R07033) ( 23 APR 74 )

## REFERENCE DATA

REF = .6300 IN. INRP = 4.6330 IN.  
LREF = .9000 IN. TREF = .0000 IN.  
REF = .9000 IN. ZREF = .0000 IN.  
SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 292.500

RUN NO. 189/ 0 RM/L = 0.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLWN	CYN	CYHN	CBL	CA	CAB	ICP/L	CPH1	CAF
1.106	70.740	13.96070	17.20000	.49370	.37006	.96790	.31540	.00000	.54030	.00000	.51340
1.106	72.630	14.19170	12.00130	.53000	.18480	.98130	.47250	.00000	.54370	.00000	.47250
1.106	74.590	14.34100	11.80390	.59700	.19840	.99140	.43350	.00000	.54660	.00000	.43320
1.106	76.570	14.46930	11.48270	.62700	.16610	.99000	.39750	.00000	.55100	.00000	.39720
1.106	78.540	14.85030	10.99480	.68200	.13700	1.00310	.37540	.00000	.55650	.00000	.37540
1.106	80.530	14.79500	10.56100	.68440	.14790	1.01590	.36090	.00000	.56110	.00000	.36090
1.106	82.500	14.94300	10.11830	.69800	.16430	1.01770	.34160	.00000	.56580	.00000	.34160
1.106	84.480	15.16400	9.72780	.68480	.21770	1.04130	.32150	.00000	.57030	.00000	.32150
1.106	86.450	15.23300	9.23480	.65100	.22540	1.06560	.29990	.00000	.57480	.00000	.29990
1.106	88.420	15.27110	8.76620	.63650	.25110	1.11280	.27840	.00000	.57880	.00000	.27840
1.106	90.500	15.28720	8.36210	.61390	.24640	1.12720	.25470	.00000	.58220	.00000	.25470
1.106	92.530	14.00410	10.54740	.67890	.15490	1.01520	.35990	.00000	.56130	.00000	.35990
GRADIENT		.07020	-.20911	.00613	.00389	.00768	-.01232	.00000	.00223	.00000	-.01232

RUN NO. 308/ 0 RM/L = 0.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLWN	CYN	CYHN	CBL	CA	CAB	ICP/L	CPH1	CAF
3.400	70.470	13.81550	9.43550	.53630	-.38290	1.09040	.79300	.00000	.56300	.00000	.79300
3.400	72.350	14.04960	9.48600	.55350	-.38040	1.09640	.73750	.00000	.56600	.00000	.73750
3.400	74.300	14.30440	9.53320	.55800	-.39360	1.11270	.68620	.00000	.56710	.00000	.68620
3.400	76.370	14.53250	9.52880	.57210	-.38290	1.12740	.62860	.00000	.56850	.00000	.62860
3.400	78.390	14.75360	9.45820	.58940	-.37070	1.13160	.55300	.00000	.57030	.00000	.55300
3.400	80.380	14.93770	9.34690	.60020	-.34930	1.15130	.49350	.00000	.57230	.00000	.49350
3.400	82.350	15.05000	9.15770	.62410	-.31760	1.15370	.43940	.00000	.57440	.00000	.43940
3.400	84.370	15.20190	9.01810	.64130	-.30530	1.17650	.37870	.00000	.57840	.00000	.37870
3.400	86.340	15.28420	8.81580	.65190	-.29010	1.17870	.31810	.00000	.58000	.00000	.31810
3.400	88.350	15.32610	8.65510	.67480	-.26680	1.19690	.25210	.00000	.58180	.00000	.25210
3.400	90.220	15.34340	8.44600	.69120	-.25380	1.19330	.18040	.00000	.58180	.00000	.18040
3.400	92.360	14.91510	9.31450	.59390	-.35420	1.16280	.49760	.00000	.57240	.00000	.49760
GRADIENT		.07900	-.05373	.00782	.00741	.00580	-.05075	.00000	.00089	.00000	-.05075



TABULATED SOURCE DATA, WSPC TWT 507

DATE 11 JUN 74

(197036) (23 APR 74)

WSPC 507(FA4) TITAN 111 C SHN (MBETP)

PARAMETRIC DATA

BETA = .000 PHI = 202.500

REFERENCE DATA

REF = .0360 SE. IN XMRP = 4.6338 IN.  
 REF = .0000 IN. YMRP = .0000 IN.  
 REF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

RUN NO. 230/ 0 RM/L = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CWN	CLWN	'TM	CYWN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.196	109.180	13.97490	4.02430	.9320	.41150	1.06970	-.51110	.00000	.61500	.00000	-.51110
1.196	107.270	14.16450	4.45940	.9420	.41600	1.09520	-.30790	.00000	.61160	.00000	-.30790
1.196	105.280	14.36940	4.87770	.9560	.38300	1.09690	-.25190	.00000	.60950	.00000	-.25190
1.196	103.300	14.62450	5.49520	.9310	.30670	1.10490	-.13950	.00000	.60400	.00000	-.13950
1.196	101.340	14.77670	6.20080	.9680	.45970	1.10060	-.02900	.00000	.59790	.00000	-.02900
1.196	99.340	14.88230	6.71290	.9620	.44270	1.09530	.08000	.00000	.59440	.00000	.08000
1.196	97.380	14.96750	7.09570	.9680	.44510	1.08600	.17810	.00000	.59160	.00000	.17810
1.196	95.390	15.06800	7.40620	.9560	.42100	1.09140	.25670	.00000	.58930	.00000	.25670
1.196	93.410	15.19720	7.77520	.9500	.43270	1.08420	.31540	.00000	.58660	.00000	.31540
1.196	91.410	15.32900	8.12740	.9420	.42260	1.08990	.35750	.00000	.58350	.00000	.35750
1.196	89.340	15.46630	8.44740	.95300	.42070	1.07970	.37460	.00000	.58100	.00000	.37460
1.196	87.380	14.91620	8.82230	.97300	.45360	1.09510	.07580	.00000	.59360	.00000	.07580
1.196	GRADIENT	-.06124	-.23111	-.00090	-.00104	.00003	-.04661	.00000	.00177	.00000	-.04661

RUN NO. 275/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.480	109.420	13.39410	5.48690	.9370	.32760	1.01470	-.52370	.00000	.59960	.00000	-.52370
3.480	107.540	13.67340	5.81220	.95400	.30890	1.02960	-.43420	.00000	.59770	.00000	-.43420
3.480	105.320	13.95760	6.19270	.97640	.27240	1.03110	-.32700	.00000	.59550	.00000	-.32700
3.480	103.320	14.17400	6.51180	.97950	.23400	1.04640	-.24040	.00000	.59330	.00000	-.24040
3.480	101.330	14.40300	6.89210	.98240	.20810	1.06780	-.13980	.00000	.59090	.00000	-.13980
3.480	99.310	14.63130	7.17520	.97330	.18260	1.07670	-.03600	.00000	.58940	.00000	-.03600
3.480	97.330	14.93020	7.53670	.96950	.15310	1.09750	.02720	.00000	.58760	.00000	.02720
3.480	95.340	15.01230	7.85470	.96640	.11780	1.09550	.12350	.00000	.58530	.00000	.12350
3.480	93.350	15.17040	8.18450	.95720	.07860	1.10220	.19870	.00000	.58320	.00000	.19870
3.480	91.340	15.23950	8.42730	.94690	.08050	1.09750	.28950	.00000	.58150	.00000	.28950
3.480	89.360	15.27640	8.65210	.93210	.03170	1.09750	.35310	.00000	.57980	.00000	.35310
3.480	87.380	14.80070	7.17400	.97890	.19870	1.05250	-.04120	.00000	.59330	.00000	-.04120
3.480	GRADIENT	-.09840	-.16278	.00070	.01510	-.00466	-.04443	.00000	.00100	.00000	-.04443

TABULATED SOURCE DATA, MOPC TWT 507

DATE 11 JUL 74

(187057) ( 23 APR 74 )

MOPC 507 (744) TITAN III C 32M (MDETP)

PARAMETRIC DATA

BETA = .000 PHI = 292.100

REFERENCE DATA

REF = .0368 IN XIMP = 4.0330 IN.  
LREF = .0000 IN. YIMP = .0000 IN.  
BREF = .0000 IN. ZIMP = .0000 IN.  
SCALE = .0074

RUN NO. 231/ 0 RN/L = 6.60 GRADIENT INTERVAL = -3.00/ 5.00

ALPHA	CMW	CLW	CTN	CYN	CSL	CA	CAB	XCP/L	CPB1	CAF
1.200	10.79110	.16970	.64000	.02990	.91560	-1.48230	.00000	.64950	.00000	-1.48230
1.200	11.22010	.37320	.67320	.09960	.93010	-1.39890	.00000	.64730	.00000	-1.39890
1.200	11.62000	.07670	.70560	.12930	.88970	-1.31080	.00000	.64410	.00000	-1.31080
1.200	12.05070	1.01890	.73410	.22300	.92700	-1.22320	.00000	.64090	.00000	-1.22320
1.200	12.44990	1.42190	.76390	.29920	.95140	-1.12100	.00000	.63700	.00000	-1.12100
1.200	12.84920	1.83450	.77980	.26600	.97720	-1.01690	.00000	.63340	.00000	-1.01690
1.200	13.17300	2.24590	.81940	.30720	.99930	-.91030	.00000	.62890	.00000	-.91030
1.200	13.47060	2.76930	.84180	.32560	1.02220	-.79630	.00000	.62530	.00000	-.79630
1.200	13.81490	3.19620	.87610	.36130	1.04750	-.68370	.00000	.62220	.00000	-.68370
1.200	14.08370	3.62330	.90530	.40360	1.07260	-.55460	.00000	.61890	.00000	-.55460
1.200	14.22210	3.98250	.92240	.42440	1.07790	-.43640	.00000	.61630	.00000	-.43640
1.200	12.80440	1.90820	.79930	.24950	.98130	-1.01640	.00000	.63260	.00000	-1.01640
GRADIENT	-.17690	-.20129	-.01378	-.02021	-.01330	-.05273	.00000	.00176	.00000	-.05273

RUN NO. 274/ 0 RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CMW	CLW	CTN	CYN	CSL	CA	CAB	XCP/L	CPB1	CAF
3.400	9.34070	2.82780	.63620	.35230	.72510	-1.53530	.00000	.61320	.00000	-.53530
3.400	9.63260	3.04090	.66680	.39930	.74080	-1.43650	.00000	.61210	.00000	-1.43650
3.400	10.50910	3.30740	.71750	.39470	.79190	-1.31260	.00000	.61090	.00000	-1.31260
3.400	10.78330	3.53380	.75440	.40010	.81560	-1.20340	.00000	.60980	.00000	-1.20340
3.400	11.21440	3.79310	.78460	.40270	.85090	-1.09700	.00000	.60870	.00000	-1.09700
3.400	11.65000	4.03050	.82210	.37360	.86630	-.98410	.00000	.60770	.00000	-.98410
3.400	12.07680	4.30600	.84600	.36590	.89920	-.86150	.00000	.60630	.00000	-.86150
3.400	12.48970	4.57250	.86910	.35770	.92400	-.77750	.00000	.60490	.00000	-.77750
3.400	12.80390	4.84310	.89280	.34200	.94640	-.67120	.00000	.60340	.00000	-.67120
3.400	13.12050	5.16530	.91510	.34100	.95930	-.57690	.00000	.60160	.00000	-.57690
3.400	13.39540	5.51420	.94450	.30940	.98660	-.47930	.00000	.59940	.00000	-.47930
3.400	11.61730	4.05500	.82920	.39040	.83380	-.99390	.00000	.60730	.00000	-.99390
GRADIENT	-.20441	-.13206	-.01482	.00328	-.01323	-.05324	.00000	.00066	.00000	-.05324

DATE 11 JUL 74

TABULATED SOURCE DATA, HSPC TWT 507

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HSPC 507 (F44) TITAN III C SRN (HSPC)

(307039) ( 23 APR 74 )

## REFERENCE DATA

REF = .6340 IN XMRP = 4.6330 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 REF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .060 PHI = 292.500

RUN NO. 92/0 RM/L = 6.02 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.201	169.250	1.35900	-1.11200	.56470	.32250	.11810	-1.90240	.16790	.75510	-.16790	-2.07040
1.201	167.250	1.74020	-1.29220	.84030	.06740	.14100	-1.95360	.19120	.74220	-.19120	-2.14500
1.201	165.160	2.18450	-1.36200	1.06500	1.17930	.17020	-1.99360	.19990	.73040	-.19990	-2.19370
1.201	163.010	2.74320	-1.42500	1.42110	1.53700	.21050	-2.03370	.22350	.71730	-.22350	-2.25930
1.201	160.800	3.34810	-1.55100	1.65790	1.75710	.26300	-2.06950	.24330	.71010	-.24330	-2.31280
1.201	158.700	3.95400	-1.75900	1.74170	1.82690	.30610	-2.09490	.25890	.70780	-.25890	-2.35370
1.201	156.570	4.56010	-2.23400	1.40260	1.53700	.37610	-2.07340	.34270	.71630	-.24270	-2.31610
1.201	154.420	4.86130	-2.60590	.99320	.62990	.41600	-2.05430	.23510	.72140	-.23510	-2.26940
1.201	152.280	5.49380	-2.86220	.96790	.37120	.49010	-2.02750	.23290	.71330	-.23290	-2.26030
1.201	150.110	6.16600	-2.77620	.77560	-.06270	.53010	-1.99110	.23800	.70850	-.23800	-2.22910
1.201	148.010	7.07490	-2.45220	1.06110	-.24400	.55370	-1.99550	.26720	.69530	-.26720	-2.27270
1.201	158.690	3.95260	-1.81060	1.68420	1.77010	.32630	-2.05740	.23010	.70950	-.23010	-2.29760
GRADIENT		-.26163	.08502	-.00341	.05237	-.02268	.00299	-.00383	.00200	.00383	.00682

RUN NO. 48/0 RM/L = 6.30 GRADIENT INTERVAL = -5.60/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	169.550	.70670	-.23540	.15590	.16720	.11390	-1.91870	.06290	.68930	-.06290	-1.98160
3.400	167.550	1.09480	-.16780	.14370	.14260	.13810	-1.93660	.06410	.67320	-.06410	-2.02070
3.400	165.550	1.47470	-.10820	.16510	.07700	.16200	-1.98620	.06320	.66100	-.06320	-2.04940
3.400	163.470	1.76030	-.07620	.17400	.03170	.18090	-2.02900	.06070	.65630	-.06070	-2.08970
3.400	161.430	2.10340	-.00130	.15600	.00610	.19100	-2.07380	.05480	.65160	-.05480	-2.12440
3.400	159.350	2.48960	.03380	.12670	-.06570	.23530	-2.12660	.04130	.64970	-.04130	-2.16900
3.400	157.290	2.85020	.09040	.10360	-.12860	.24900	-2.16250	.02210	.64730	-.02210	-2.18470
3.400	155.220	3.27060	.16560	.12270	-.10560	.29320	-2.18820	-.00220	.64450	.00220	-2.18600
3.400	153.160	3.70590	.34380	.13370	-.04610	.29930	-2.22840	-.02220	.63970	.02220	-2.20610
3.400	151.090	4.17740	.50940	.16310	.03900	.33100	-2.21990	-.03310	.63600	.03310	-2.18470
3.400	149.090	4.64020	.67620	.21200	.31600	.34320	-2.19520	-.04660	.63320	.04660	-2.14860
3.400	159.350	2.49740	.02750	.12670	-.05980	.21260	-2.11970	.03700	.65010	-.03700	-2.15670
GRADIENT		-.16769	-.04116	-.00092	.00406	-.01148	.01580	.00602	.00230	-.00602	.00970



(097040) ( 23 APR 74 )

NUPC 507(744) TITAN III C SQM (NUPC7P)

PARAMETRIC DATA

REFERENCE DATA

BREF = .6300 IN. INTRP = 4.6330 IN.  
 LREF = .9000 IN. INTRP = .0000 IN.  
 BREF = .9000 IN. INTRP = .0000 IN.  
 SCALE = .0074

BETA = .005 PHI = 232.508

RUN NO. 93/ 0 RM/L = 0.62 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CUM	CLIM	CYN	CYNN	CBL	CA	CAB	KCP/L	CP81	CAF
1.203	190.250	-1.02200	1.35310	.36030	.03240	-.10720	-1.00210	.12290	.81320	-.12290	-1.72310
1.203	188.270	-.01730	1.19040	.24240	-.05890	-.12960	-1.57700	.10160	.62960	-.10160	-1.07680
1.203	186.210	-.57670	.85470	.14660	-.09100	-.09240	-1.56670	.09350	.63910	-.09350	-1.60820
1.203	184.120	-.56430	.51760	.07500	-.00980	-.05900	-1.57370	.08730	.63140	-.08730	-1.67100
1.203	182.070	-.15790	.25150	.03930	-.03230	-.02620	-1.59690	.08590	.63330	-.08590	-1.68280
1.203	179.980	.08620	.08850	.03180	.04040	.01960	-1.62180	.08330	.52160	-.08330	-1.70320
1.203	177.920	.25640	-.20810	-.01780	.05980	.04900	-1.67440	.08340	.75420	-.08340	-1.76190
1.203	175.850	.43970	-.57560	-.02000	.01510	.06870	-1.70450	.09560	.61030	-.09560	-1.80020
1.203	173.770	.74720	-.74320	.11840	.06180	.04370	-1.76700	.10360	.77740	-.10360	-1.87080
1.203	171.680	1.06740	-.92460	.28390	.18530	.09490	-1.83480	.12930	.76110	-.12930	-1.96420
1.203	169.570	1.39500	-.1.10550	.54670	.46040	.11560	-1.90380	.14590	.75180	-.14590	-2.04370
1.203	179.970	.11430	.06090	-.00200	.02730	.01440	-1.81310	.06660	.58400	-.06660	-1.87980
GRADIENT		-.11441	.12426	-.00336	-.01707	-.01599	.01534	-.00410	.00400	.00110	.01844

RUN NO. 47/ 0 RM/L = 0.30 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CUM	CLIM	CYN	CYNN	CBL	CA	CAB	KCP/L	CP81	CAF
3.480	190.200	-.00150	.42130	.14250	.03760	-.06310	-1.72740	.05950	.71800	-.05950	-1.78600
3.480	188.270	-.00170	.43320	.09730	.04690	-.07730	-1.71600	.05530	.74720	-.05530	-1.77210
3.480	186.230	-.43880	.41360	.04670	.02970	-.06350	-1.70120	.04940	.77080	-.04940	-1.75050
3.480	184.210	-.32890	.33160	.04330	-.01010	-.02920	-1.69630	.04230	.78000	-.04230	-1.73990
3.480	182.200	-.17560	.24220	.02040	-.03750	-.01820	-1.71450	.03070	.82600	-.03070	-1.75320
3.480	180.150	-.07540	.09910	-.00280	-.03730	-.01340	-1.73320	.03940	.81780	-.03940	-1.77260
3.480	178.130	.03860	-.05020	-.00640	-.04650	-.01390	-1.75320	.04010	.81680	-.04010	-1.80340
3.480	176.100	.16620	-.17650	.00070	.01240	.03840	-1.79320	.03990	.78590	-.03990	-1.83330
3.480	174.090	.29630	-.27360	.03360	.06430	.05340	-1.82810	.04710	.76930	-.04710	-1.87330
3.480	172.030	.50250	-.30290	.06540	.12940	.07850	-1.86830	.05500	.72780	-.05500	-1.91340
3.480	170.070	.77520	-.24170	.12900	.18330	.09040	-1.89570	.06110	.69090	-.06110	-1.95690
3.480	168.150	-.08920	.07940	-.00330	-.01020	-.01960	-1.74510	.03890	.76530	-.03890	-1.78410
GRADIENT		-.07062	.64374	.00182	-.00539	-.00911	.00919	-.00001	.00099	.00001	.00921

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 987

(1897041) (23 APR 74)

NSFC 987 (FAA) TITAN III C 3RM (MDETP)

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 PNI = 270.000

REF = .0360 90. IN XMRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 SREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

RUN NO. 150/ 0 RM/L = 4.99 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CNN	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.999	-10.020	-1.05760	-1.12800	.10460	.21120	.00700	.62040	.10040	.51650	-.10040	.51990
.999	-8.100	-.07070	-.01450	.04330	.20190	.32660	.62170	.09030	.53310	-.09030	.53110
.999	-6.100	-.04290	-.32250	-.04040	.15220	-.00700	.59370	.07280	.53460	-.07280	.52290
.999	-4.000	-.52050	-.24720	-.06980	.16956	.00270	.57250	.06830	.59140	-.06830	.50400
.999	-2.040	-.35450	.00690	-.09940	.21390	.04470	.55320	.05930	.65400	-.05930	.49390
.999	-.020	-.21110	.31380	-.09410	.12180	.05930	.54160	.06450	.83960	-.06450	.47710
.999	1.990	-.06580	.53030	-.15340	.17450	.06670	.55270	.08700	1.67150	-.08700	.46570
.999	4.010	.11780	.86760	-.16770	.09740	.08430	.56720	.09220	-.28050	-.09220	.47500
.999	6.020	.26120	1.22200	-.17240	.06980	.11120	.59360	.10500	.05940	-.10500	.49080
.999	8.080	.42350	1.60630	-.19330	.07040	.16030	.60390	.10920	.17370	-.10920	.49470
.999	10.000	.56880	1.89090	-.20950	.03620	.19780	.60850	.11990	.23080	-.11990	.48860
.999	-.020	-.21160	.27120	-.10370	.12710	.05360	.55960	.06560	.81370	-.06560	.49300
.999	GRADIENT	.07761	.13649	-.01290	-.00900	.00918	-.00065	.00372	-.03606	-.00372	-.00437

RUN NO. 149/ 0 RM/L = 6.19 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CNN	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.904	-10.100	-1.11890	-1.12730	.07990	.20990	-.02680	.81040	.10390	.52370	-.10390	.70840
.904	-8.170	-.91450	-.83560	.01490	.21060	-.02780	.80490	.09560	.53560	-.09560	.70930
.904	-6.140	-.70110	-.49900	-.05070	.19320	-.01400	.79860	.07830	.56140	-.07830	.72020
.904	-4.080	-.49680	-.21860	-.09270	.17270	.00670	.77870	.06470	.59360	-.06470	.71390
.904	-2.050	-.30920	.02680	-.11240	.14570	.01330	.75680	.06530	.66250	-.06530	.69150
.904	-.010	-.16460	.30090	-.13150	.13570	.01610	.74460	.06890	.88260	-.06890	.67370
.904	2.040	.03680	.61020	-.13500	.09270	.04160	.75610	.07840	-1.44370	-.07840	.67960
.904	4.050	.19350	.93500	-.15500	.10780	.06930	.78410	.08680	.03990	-.08680	.69720
.904	6.090	.35080	1.29070	-.16570	.06940	.09740	.80850	.09960	.18580	-.09960	.70870
.904	8.130	.52220	1.63240	-.18720	.04120	.12220	.81310	.11140	.25590	-.11140	.70170
.904	10.100	.72780	1.99350	-.27090	-.00610	.16610	.82060	.11920	.30480	-.11920	.70140
.904	-.010	-.15230	.29500	-.13060	.12920	.00390	.75100	.07140	.89660	-.07140	.67950
.904	GRADIENT	.08485	.14204	-.00723	-.00499	.00754	.00059	.00282	-.15874	-.00282	-.00223

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TUT 387

NSFC 583 (F44) TITAN III C SRM (MRETP)

(897841) ( 23 APR 74 )

PARAMETRIC DATA

REFERENCE DATA

REF = .6360 IN XMRP = 4.8338 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 BREF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .C074  
 BETA = .000 PHI = 270.000

RUN NO. 148/ 0 RM/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLWN	CYN	CYNN	CBL	CA	CAB	YCP/L	CPBI	CAF
1.194	-10.160	-1.20520	-1.19220	.07440	.19370	-.03360	1.16920	.21210	.52630	-.21210	.93700
1.194	-8.210	-.96970	-.07250	.01660	.21660	-.03170	1.15770	.20360	.53760	-.20360	.93400
1.194	-6.170	-.73290	-.96260	-.06430	.21290	-.02920	1.15200	.19260	.55430	-.19260	.93940
1.194	-4.120	-.50930	-.29000	-.09930	.17480	-.01140	1.14710	.18510	.56190	-.18510	.93600
1.194	-2.080	-.30930	-.02240	-.12430	.15960	.00960	1.13930	.18260	.64220	-.18260	.94900
1.194	-.010	-.11100	.25630	-.14940	.14430	.02280	1.14110	.19200	.92320	-.19200	.94900
1.194	2.030	.06390	.59430	-.17170	.11440	.05600	1.13760	.19570	-.24430	-.19570	.96200
1.194	4.080	.24900	.93030	-.18050	.07930	.07650	1.17850	.20610	.16060	-.20610	.97240
1.194	6.130	.40610	1.33190	-.19920	.06180	.12050	1.21900	.23200	.23020	-.23200	.96700
1.194	8.190	.60140	1.79010	-.22690	.04260	.15790	1.24020	.24580	.27470	-.24580	.99430
1.194	10.170	.82420	2.19260	-.26220	.03600	.20040	1.25430	.23360	.31480	-.23360	1.00060
1.194	-.010	-.10160	.24440	-.14400	.19300	.02010	1.13530	.18670	.95560	-.18670	.94060
GRADIENT		.09295	.15004	-.01023	-.01151	.01102	.00396	.00269	-.08342	-.00269	.00127

RUN NO. 124/ 0 RM/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.980	-10.240	-1.19610	-1.69280	.16610	.01420	-.08190	.91980	.12920	.47240	-.12920	.79040
1.980	-8.290	-.98400	-1.27610	.11030	.03320	-.05940	.89630	.11440	.46850	-.11440	.78200
1.980	-6.210	-.82200	-.93620	.04730	.08640	-.04170	.86820	.09640	.46100	-.09640	.77180
1.980	-4.130	-.41120	-.60990	.01190	.08780	-.02710	.86570	.08380	.46380	-.08380	.78190
1.980	-2.070	-.20240	-.26600	-.02630	.06510	-.00660	.84260	.07290	.46390	-.07290	.76970
1.980	-.010	-.02850	.07510	-.05590	.06970	.01660	.86000	.07370	.98400	-.07370	.78620
1.980	2.040	.17820	.45200	-.07900	.08240	.03330	.87490	.07220	.33050	-.07220	.80260
1.980	4.100	.36310	.82460	-.11600	.08050	.07200	.89150	.06410	.36410	-.06410	.80730
1.980	6.160	.56790	1.31370	-.14470	.09180	.10830	.94290	.10340	.36810	-.10340	.83950
1.980	8.250	.83730	1.78080	-.16960	.06910	.14600	.97640	.12350	.36230	-.12350	.85280
1.980	10.260	1.14540	2.22620	-.17660	.05450	.19460	.99740	.14530	.40350	-.14530	.85210
1.980	.000	.01420	.10960	-.06080	.06840	.00710	.83070	.06830	-.31510	-.06830	.76230
GRADIENT		.09379	.17447	-.01490	.00013	.01166	.00408	-.00001	-.01709	.00001	.00407

DATE 11 JUL 74

LABULATED SOURCE DATA, NSFC TWT 507

NSFC 507 (FA4) TITAN III C SRN (MBETP)

(1897041) ( 23 APR 74 )

REFERENCE DATA

REF = .6300 30. IN XMRP = 4.0330 IN.  
LREF = .9000 IN. YMRP = .0000 IN.  
SREF = .9000 IN. ZMRP = .0000 IN.  
SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 15/ 0 RM/L = 0.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	-10.250	-1.15250	-1.40780	.16630	-.10390	-.08430	.76260	.06850	.49030	-.06850	.69410
3.400	-8.290	-.09400	-1.19170	.15050	-.09080	-.07490	.75300	.06270	.48280	-.06270	.69020
3.400	-6.240	-.08040	-.04180	.09450	-.05210	-.05930	.73500	.05560	.47640	-.05560	.68010
3.400	-4.210	-.11240	-.08050	.04450	-.01470	-.03430	.70520	.04940	.47150	-.04940	.65500
3.400	-2.170	-.19210	-.31220	.00690	-.01780	-.01510	.70250	.04450	.44580	-.04450	.65790
3.400	-.140	-.05540	-.01430	-.02700	-.00240	.00370	.70470	.03600	.60000	-.03600	.66660
3.400	1.890	.17180	.36290	-.05480	-.00510	.03100	.73120	.04240	.38420	-.04240	.68070
3.400	3.930	.35300	.67950	-.07590	-.00950	.05330	.75440	.04650	.48790	-.04650	.70790
3.400	5.950	.58410	1.03500	-.07870	-.02930	.08790	.78720	.05450	.42720	-.05450	.73260
3.400	8.020	.84040	1.39600	-.08150	-.06250	.12460	.82380	.06030	.44120	-.06030	.76340
3.400	9.990	1.12320	1.69250	-.10170	-.05360	.13940	.84910	.06370	.46080	-.06370	.78330
3.400	-.140	-.04730	-.02340	-.03350	-.00780	.01720	.70090	.03700	.58870	-.03700	.66390
GRADIENT		.09515	.15765	-.01487	-.00061	.01108	.00625	-.00039	-.00928	.00039	.00844

RUN NO. 16/ 0 RM/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	-10.150	-.95430	-1.30140	.14280	-.04250	-.09500	.66520	.00670	.47890	-.00670	.65850
4.959	-8.200	-.78060	-1.11000	.10000	-.07330	-.12510	.63230	-.00380	.47150	.00380	.63620
4.959	-6.180	-.55080	-.78380	.08610	-.00950	-.08460	.61980	-.00060	.47150	.00060	.62040
4.959	-4.170	-.34730	-.57170	.04510	-.03560	-.05820	.60050	.00210	.44310	-.00210	.59830
4.959	-2.170	-.17180	-.31770	.00220	.04800	-.02650	.58610	.00440	.41750	-.00440	.58170
4.959	-.130	.06100	-.07290	-.05670	.01890	-.03790	.60140	.01120	.50030	-.01120	.59016
4.959	1.890	.20520	.33760	-.05940	-.00200	.00960	.61880	.00660	.44320	-.00660	.61210
4.959	3.890	.34730	.56980	-.08150	-.03430	-.02630	.65070	.00310	.44380	-.00310	.64780
4.959	5.890	.54920	.78570	-.07810	-.11110	.00200	.67980	.00380	.47040	-.00380	.67610
4.959	7.920	.80640	1.19900	-.06770	-.13880	.04700	.70650	.00490	.46330	-.00490	.70150
4.959	9.880	1.03060	1.43410	-.11010	-.14140	.06950	.75680	.00610	.47670	-.00610	.75070
4.959	-.130	.00310	.03070	-.04350	-.00210	-.03360	.58170	.00740	-.56540	-.00740	.57430
GRADIENT		.08754	.14585	-.01363	-.00941	.00495	.00660	-.00021	.00136	-.00021	.00639

DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 597

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NSPC 597(F74) TITAN III C SRM (INSTRP)

(R97042) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN INRP = 4.0330 IN.  
 LREF = .0000 IN. YNRP = .0000 IN.  
 BREF = .0000 IN. ZNRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 151/ 0 RN/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CTN	CTNN	CBL	CA	CAB	KCP/L	CPB1	CAF
.002	10.540	.58410	2.01530	-.22760	.03090	.17080	.85060	.1350	.21480	-.11350	.33500
.002	12.460	.79100	2.36640	-.28050	.05000	.23020	.66110	.12310	.25310	-.12310	.33600
.002	14.480	.93960	2.64510	-.33910	.10660	.29030	.64340	.13080	.29370	-.13080	.31240
.002	16.510	1.20240	3.03910	-.39740	.17930	.28840	.64280	.13520	.33160	-.13520	.30730
.002	18.530	1.48790	3.42210	-.46850	.21130	.33530	.63390	.13650	.36040	-.13650	.49730
.002	20.570	1.74500	3.81310	-.54630	.28580	.37710	.61280	.14790	.37490	-.14790	.46490
.002	22.610	2.09590	4.20990	-.75770	.45910	.42240	.60110	.17940	.39720	-.17940	.42160
.002	24.630	2.43360	4.59090	-.89420	.59780	.46670	.57830	.17450	.41270	-.17450	.40380
.002	26.680	2.81960	4.94520	-.93230	.69380	.50660	.56090	.16240	.42950	-.16240	.37840
.002	28.730	3.25900	5.31000	-.95340	.75890	.56720	.52820	.20000	.44190	-.20000	.32820
.002	30.680	3.65950	5.71700	-.82220	.77130	.59880	.49000	.20660	.45380	-.20660	.28340
.002	20.580	1.77990	3.85060	-.59250	.35440	.38340	.61990	.14320	.37770	-.14320	.47660
GRADIENT		.15317	.18583	-.03959	.04147	.02104	-.00784	.00466	.01147	-.00466	-.01250

RUN NO. 152/ 0 RN/L = 6.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CTN	CTNN	CBL	CA	CAB	KCP/L	CPB1	CAF
.099	10.620	.70290	1.94810	-.26310	-.02750	.19330	.83290	.11020	.30070	-.11020	.72260
.099	12.570	.91760	2.31780	-.25390	.07410	.20180	.83470	.12250	.33180	-.12250	.71210
.099	14.600	1.16250	2.70580	-.32550	.10200	.24160	.83450	.13250	.35690	-.13250	.70190
.099	16.660	1.48080	3.18710	-.42080	.12530	.27740	.82020	.14150	.37910	-.14150	.67870
.099	18.750	1.85370	3.69630	-.56830	.16680	.32300	.80710	.15690	.39910	-.15690	.65020
.099	20.820	2.24470	4.17880	-.57800	.27990	.35120	.77890	.16870	.41590	-.16870	.61010
.099	22.920	2.69390	4.75070	-.62580	.35750	.39970	.74820	.17690	.42830	-.17690	.56530
.099	24.990	3.15420	5.37450	-.46020	.36330	.43450	.78420	.18310	.43580	-.18310	.52110
.099	27.100	3.73130	6.12410	-.37780	.48100	.49540	.68250	.19270	.44360	-.19270	.46940
.099	29.210	4.33030	6.87020	-.41340	.59900	.53850	.64600	.20730	.45070	-.20730	.43860
.099	31.230	4.84730	7.58820	-.39810	.62400	.58020	.59110	.21530	.45330	-.21530	.37570
.099	20.840	2.28430	4.21290	-.42790	.25950	.33520	.78180	.16370	.41930	-.16370	.61810
GRADIENT		.20318	.27263	-.00884	.03091	.02012	-.01194	.00504	.00719	-.00504	-.01696

DATE 11 JUN 74

TABULATED SOURCE DATA, NSFC TUF 307

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NSFC 307 (PA4) TITAN III C SRN (KBETP)

(1807042) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0360 IN. INP = 4.6330 IN.  
 LREF = .0000 IN. YMP = .0000 IN.  
 BREF = .0000 IN. ZMP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 270.000

## PARAMETRIC DATA

RUN NO. 153/ 0 RM/L = 6.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.202	10.710	.03230	2.24310	-.24000	.01010	.19200	1.29770	.23920	.31040	-.23920	1.01950
1.202	12.070	1.09600	2.63250	-.20910	.02970	.24750	1.26310	.29070	.34700	-.29070	1.01430
1.202	14.730	1.44650	3.00950	-.33640	.00400	.29770	1.26390	.29950	.38150	-.29950	1.00430
1.202	16.640	1.84775	3.50270	-.40240	.10090	.35060	1.25490	.27210	.40610	-.27210	.90200
1.202	18.950	2.31540	4.13000	-.47200	.23430	.41420	1.24050	.27930	.42920	-.27930	.96110
1.202	21.070	2.85920	4.80360	-.55050	.33110	.44940	1.22160	.29040	.43600	-.29040	.93120
1.202	23.200	3.44400	5.54330	-.61500	.40030	.51330	1.20910	.31210	.44780	-.31210	.89890
1.202	25.360	4.09300	6.36710	-.69250	.49370	.56140	1.19570	.33050	.45470	-.33050	.86310
1.202	27.510	4.78800	7.15860	-.78780	.59340	.62000	1.19590	.36340	.46230	-.36340	.83240
1.202	29.660	5.53130	7.92730	-.87970	.65490	.68430	1.17290	.38640	.47010	-.38640	.78850
1.202	31.750	6.27080	8.60100	-.95150	.74630	.72860	1.14690	.39330	.47790	-.39330	.73350
1.202	21.090	2.86950	4.87430	-.53940	.30330	.45120	1.19240	.27290	.43600	-.27290	.91940
GRADIENT		.28065	.31031	-.03439	.03605	.02535	-.00550	.00764	.00725	-.00764	-.01314

RUN NO. 125/ 0 RM/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.907	10.700	1.09800	2.25290	-.10210	.05580	.19590	1.01060	.15270	.39430	-.15270	.86580
1.907	12.700	1.50660	2.60440	-.18000	.06110	.24740	1.03140	.15560	.42600	-.15560	.87580
1.907	14.000	1.94790	3.15400	-.22650	.07020	.28610	1.04730	.19060	.44650	-.19060	.88070
1.907	16.990	2.41200	3.61940	-.26490	.09890	.33000	1.04330	.16900	.46160	-.16900	.89420
1.907	19.100	2.88870	4.14920	-.32780	.14580	.36950	1.08710	.18090	.46970	-.18090	.90610
1.907	21.220	3.35650	4.67660	-.38930	.21540	.40710	1.10390	.19770	.47510	-.19770	.90820
1.907	23.350	3.90060	5.18160	-.45190	.31030	.44610	1.12900	.21240	.48330	-.21240	.91350
1.907	25.460	4.41000	5.56030	-.52840	.39920	.49000	1.13710	.22390	.49220	-.22390	.91320
1.907	27.500	5.01500	6.04690	-.57940	.45980	.54000	1.15200	.22000	.49890	-.22000	.93190
1.907	29.670	5.48900	6.26440	-.60350	.51180	.57120	1.13670	.22410	.50660	-.22410	.91250
1.907	31.700	6.06820	6.80760	-.61410	.53330	.61920	1.14770	.22590	.50950	-.22590	.92180
1.907	21.200	3.36910	4.59960	-.39450	.20250	.40250	1.09300	.19460	.47870	-.19460	.89830
GRADIENT		.23766	.21977	-.02392	.02649	.01964	.00678	.00417	.00468	-.00417	.00261

NSFC 507 (744) TITAN III C 0PM (HSETP)

(197042) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0300 IN. INRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 SREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PMI = 270.000

RUN NO. 18/ 0 RM/L = 0.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	10.510	1.1320	1.73420	-.08070	-.05570	.11500	.87310	.06390	.45560	-.04390	.80910
3.400	12.400	1.45300	2.13610	-.09730	-.09300	.13000	.89770	.06050	.46550	-.04950	.82940
3.400	14.340	1.78700	2.51110	-.10300	-.06050	.16310	.92570	.07200	.47360	-.07200	.83370
3.400	16.390	2.14670	2.86550	-.11600	-.03990	.21490	.96670	.07500	.48250	-.07500	.89170
3.400	18.430	2.51920	3.17190	-.15400	-.06940	.23810	.98590	.07290	.49210	-.07290	.91300
3.400	20.710	2.93100	3.54910	-.19070	-.03830	.27990	1.01870	.06270	.49820	-.06270	.93900
3.400	22.770	3.36960	3.89110	-.22650	.00050	.32260	1.05530	.04650	.50530	-.04650	1.00680
3.400	24.840	3.84400	4.28000	-.26330	-.00350	.36490	1.09380	.03390	.51030	-.03390	1.06000
3.400	26.890	4.31930	4.63100	-.29370	-.00950	.41390	1.12750	.02420	.51980	-.02420	1.10330
3.400	28.980	4.83260	5.02840	-.32230	.03430	.46900	1.15960	.01610	.51900	-.01610	1.14350
3.400	30.970	5.31970	5.39300	-.34490	.10220	.51620	1.19730	.00940	.52320	-.00940	1.17780
3.400	20.700	2.90570	3.51590	-.15050	-.03130	.28790	1.01900	.06020	.49830	-.06020	.95870
GRADIENT		-.20407	.17561	-.01380	.00759	.01954	.01570	-.00323	.00332	-.00325	.01895

RUN NO. 17/ 0 RM/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	10.400	1.03660	1.49600	-.06310	-.13780	.07410	.79640	.00490	.46680	-.06490	.79150
4.959	12.320	1.32060	1.77360	-.07008	-.16180	.08670	.83790	.00080	.48150	-.08080	.83700
4.959	14.340	1.60770	2.02150	-.08470	-.19130	.11948	.88100	-.00010	.49230	.00010	.86120
4.959	16.360	1.90010	2.36130	-.09630	-.09640	.17990	.93060	.00210	.50060	-.00210	.92640
4.959	18.390	2.35360	2.64230	-.12410	-.12000	.20680	.97770	-.00310	.50940	.00310	.98080
4.959	20.410	2.78520	2.93560	-.16550	-.13390	.23510	1.03650	-.01010	.51810	.01010	1.04670
4.959	22.440	3.27250	3.23990	-.17700	-.12220	.32320	1.08510	-.02650	.52620	.02650	1.11170
4.959	24.470	3.67590	3.47890	-.23070	-.11740	.33210	1.12730	-.03790	.53170	.03790	1.16520
4.959	26.500	4.19270	3.95910	-.25760	-.06620	.40720	1.17100	-.04290	.53200	.04290	1.21400
4.959	28.530	4.82410	4.29230	-.29880	-.06840	.42990	1.20330	-.04640	.53430	.04640	1.24970
4.959	30.480	5.11070	4.74010	-.31110	-.00570	.48740	1.23750	-.06080	.53410	.06080	1.29930
4.959	20.410	2.73000	2.86180	-.17980	-.13340	.26370	1.02940	-.02200	.51680	.02200	1.05140
GRADIENT		-.20568	.15722	-.01305	.00615	.02128	.02270	-.00338	.00331	-.00338	.02608



DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 967

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NSPC 907 (FA4) TITAN 111 C SRN (MBETP)

(R07043) ( 23 APR 74 )

## REFERENCE DATA

BREF = .6360 SR. IN XMRP = 4.6330 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 BREF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 134/ 0 RM/L = 6.60 GRADIENT INTERVAL = -5.007 5.00

WACH	ALPHA	CUN	CLNW	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	31.930	6.33530	8.49350	-1.00940	.72326	.76776	1.14930	.37080	.48180	-.37080	.77730
1.197	33.970	7.03090	9.17290	-1.04740	.73680	.80860	1.12320	.37680	.48640	-.37680	.74440
1.197	36.100	7.76630	9.89370	-1.11510	.74450	.87350	1.09500	.38770	.49020	-.38770	.70720
1.197	38.260	8.36390	10.60900	-1.00460	.74630	.91980	1.05540	.39700	.49130	-.39700	.65040
1.197	40.390	9.03040	11.27060	-.89700	.52540	.96030	.99940	.36320	.49350	-.36320	.63320
1.197	42.520	9.61240	11.84120	-.82390	.42550	.98270	.95030	.33090	.49560	-.33090	.61950
1.197	44.650	10.21230	12.56600	-.78610	.38330	1.06500	.86900	.29810	.49370	-.29810	.57080
1.197	46.770	10.78970	13.24250	-.74280	.20190	1.02690	.82180	.28030	.49610	-.28030	.53350
1.197	48.890	11.15970	14.15170	-.69360	1.20720	1.04760	.85980	.36280	.49100	-.36280	.49690
1.197	50.970	11.38580	14.71580	-.59970	.90760	1.02010	.80510	.34340	.48790	-.34340	.46160
1.197	52.970	11.71110	15.14110	-.60360	.63590	1.01990	.74360	.32320	.48780	-.32320	.42030
1.197	42.530	9.82050	11.83260	-.82080	.45940	.98940	.94650	.34610	.49580	-.34610	.60040
GRADIENT		.29984	.32101	.02492	.00169	.01245	-.01975	-.00317	.00022	.00317	-.01658

RUN NO. 19/ 0 RM/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CUN	CLNW	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	31.090	5.36580	5.41370	-.34490	.08650	.51370	1.20140	.07270	.52420	-.07270	1.12860
3.480	33.040	5.87370	5.85050	-.37510	.12320	.56250	1.22210	.06680	.52540	-.06680	1.15930
3.480	35.120	6.38960	6.28080	-.41790	.15620	.60350	1.22710	.06170	.52680	-.06170	1.16330
3.480	37.160	6.89910	6.77010	-.44800	.18510	.65360	1.22630	.05600	.52730	-.05600	1.17230
3.480	39.250	7.41380	7.21120	-.49100	.19680	.70960	1.22670	.05020	.52840	-.05020	1.17640
3.480	41.350	7.92650	7.63690	-.51430	.23740	.75450	1.22180	.04270	.52950	-.04270	1.17910
3.480	43.420	8.43180	8.07190	-.55770	.24260	.80290	1.21590	.03260	.53030	-.03260	1.18330
3.480	45.490	8.91260	8.47310	-.58790	.24310	.84810	1.19660	.02520	.53120	-.02520	1.17130
3.480	47.540	9.40410	8.87110	-.61900	.23040	.86980	1.17870	.02670	.53210	-.02670	1.15280
3.480	49.630	9.85400	9.26440	-.65000	.23080	.93530	1.15870	.02190	.53250	-.02190	1.13670
3.480	51.610	10.26950	9.64720	-.67570	.21510	.97540	1.13280	.01120	.53260	-.01120	1.12160
3.480	41.340	7.91220	7.61130	-.53320	.21630	.75860	1.22130	.01290	.52970	-.01290	1.17830
GRADIENT		.23961	.20810	-.01630	.00663	.02237	-.00359	-.00237	.00042	.00295	-.00063

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TABULATED SOURCE DATA, NSFC TWT 587

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NSFC 587 (F44) TITAN III C SHM (MSTP)

(R97044) ( 23 APR 74 )

## REFERENCE DATA

REF = .6309 34. IN XREF = 4.6330 IN.  
 LREF = .9800 IN. YREF = .0000 IN.  
 REF = .9800 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 189/ 0 RM/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CIN	CLIN	CYN	CYIN	CBL	CA	CAB	KCP/L	CP81	CAF
.999	50.450	7.70900	10.43690	.35100	1.00320	.01410	.31650	.00000	.49010	.00000	.31650
.999	52.340	8.05900	10.82690	.39000	2.10240	.07300	.24960	.00000	.48150	.00000	.24960
.999	54.350	8.39630	11.22730	.46830	2.51800	.09530	.16640	.00000	.48220	.00000	.16640
.999	56.360	8.67890	11.76850	.59060	2.77360	.09170	.11950	.00000	.47990	.00000	.11950
.999	58.370	8.91920	12.12590	.44360	2.79750	.09030	.07700	.00000	.47940	.00000	.07700
.999	60.380	9.10150	12.44800	.38470	2.57090	.08950	.02590	.00000	.47840	.00000	.02590
.999	62.400	9.29070	12.69380	.41550	2.28590	.07910	-.01980	.00000	.47860	.00000	-.01980
.999	64.400	9.42240	12.78310	.40460	1.89990	.08530	-.06810	.00000	.47980	.00000	-.06810
.999	66.380	9.53570	12.76120	.34760	1.50280	.05920	-.12220	.00000	.48210	.00000	-.12220
.999	68.400	9.63330	12.60360	.24270	1.13610	.06220	-.15990	.00000	.48520	.00000	-.15990
.999	70.290	9.68930	12.46270	.17170	.98180	.05470	-.19990	.00000	.48870	.00000	-.19990
.999	60.380	9.04130	12.30480	.44200	2.54960	.08080	.02950	.00000	.47810	.00000	.02950
GRADIENT		.09812	.11262	-.00972	-.06172	-.00031	-.02530	.00000	.00026	.00000	-.02530

RUN NO. 190/ 1 RM/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CIN	CLIN	CYN	CYIN	CBL	CA	CAB	KCP/L	CP81	CAF
.999	50.450	9.07850	14.45370	.00550	.19180	.77490	.49490	.00000	.45000	.00000	.49490
.999	52.340	9.46070	14.89490	-.04950	.12400	.79320	.48000	.00000	.45220	.00000	.48000
.999	54.350	9.69760	15.09160	-.12510	-.09960	.79580	.44680	.00000	.45430	.00000	.44680
.999	56.360	9.96270	15.35970	-.14960	-.15070	.80120	.38840	.00000	.45660	.00000	.38840
.999	58.370	10.13730	15.21310	-.17430	-.13680	.82490	.33380	.00000	.46150	.00000	.33380
.999	60.380	10.09990	13.56250	-.17160	-.03940	.85350	.38150	.00000	.48150	.00000	.38150
.999	62.400	10.25940	13.09310	-.23690	.01740	.87400	.38970	.00000	.49000	.00000	.38970
.999	64.400	10.42840	12.83890	-.31670	.10910	.90510	.38790	.00000	.49570	.00000	.38790
.999	66.370	10.63830	12.38470	-.35580	.13980	.94140	.38920	.00000	.50410	.00000	.38920
.999	68.370	10.79120	11.93300	-.38740	.20340	.96470	.37150	.00000	.51150	.00000	.37150
.999	70.450	10.88470	11.52330	-.43700	.25290	.97530	.34340	.00000	.51750	.00000	.34340
.999	60.630	10.12480	13.59200	-.21410	-.05290	.85600	.41280	.00000	.48410	.00000	.41280
GRADIENT		.08414	-.19220	-.02144	.00925	.01097	-.06604	.00000	.00365	.00000	-.06604



DATE 11 JUL 74

**TABULATED SOURCE DATA, NSFC TWT 507**

(R97044) ( 23 APR 74 )

NSFC 987(FA4) TITAN III C SRW (MBETP)

## PARAMETRIC DATA

BETA = .000 PHI = 270.000

## REFERENCE DATA

REF =	.6300 IN.	XRP =	4.6330 IN.
REF =	.9000 IN.	YRP =	.0000 IN.
REF =	.9000 IN.	ZRP =	.0000 IN.
SCALE =	.0074		

RUN NO. 191/0 RM/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

WACB	ALPBA	CBM	CLM	CTW	CTM	COL	CA	CAB	XCP/L	CPB1	CAF
1.198	50.080	10.98170	13.57010	-4.0370	-21920	.95750	.94880	.00000	.49360	.00000	.94880
1.198	52.780	11.28210	14.06390	-53340	.14740	.95470	.91400	.00000	.49370	.00000	.91400
1.198	54.800	11.89060	14.44340	-63660	.18120	1.00010	.88060	.00000	.49310	.00000	.88060
1.198	56.900	12.07780	14.47350	-73140	.27310	1.03350	.84030	.00000	.49360	.00000	.84030
1.198	58.800	12.43450	14.65310	-72240	.39860	1.06350	.77390	.00000	.50233	.00000	.77390
1.198	60.810	12.68290	14.82920	-69000	.52470	1.07890	.71600	.00000	.50350	.00000	.71600
1.198	62.820	12.93840	14.66320	-71230	.58470	1.09760	.63300	.00000	.50800	.00000	.63300
1.198	64.800	13.12490	14.26100	-73580	.58470	1.12420	.60430	.00000	.51670	.00000	.60430
1.198	66.770	13.35190	14.24990	-76050	.53420	1.15090	.55200	.00000	.52090	.00000	.55200
1.198	68.780	13.62040	14.03730	-78960	.47790	1.16690	.50580	.00000	.52560	.00000	.50580
1.198	70.860	13.75010	13.72590	-82150	.53360	1.18170	.47360	.00000	.52320	.00000	.47360
1.198	60.830	12.80380	14.71190	-69490	.51830	1.09080	.72510	.00000	.50470	.00000	.72510
1.198	62.830	12.83390	-1.00108	-01617	.02189	.01203	-.02554	.00000	.00167	.00000	-.02554

RUN NO. 246/ 0 RN/L = 0.90 GRADIENT INTERVAL = -5.00/ 5.00

NAME	ALPHA	CHW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.955	20.730	10.57430	10.08030	-.83400	.56450	.99000	1.13030	.00000	.53080	.00000	1.13030
1.955	49.647	11.04190	10.49700	-.88210	.56940	1.02530	1.09980	.00000	.53120	.00000	1.09980
1.955	54.896	11.53630	10.93680	-.87420	.56740	1.05610	1.07150	.00000	.53150	.00000	1.07150
1.955	58.690	11.92720	11.17060	-.86310	.59130	1.08610	1.03410	.00000	.53290	.00000	1.03410
1.955	58.700	12.27340	11.32370	-.90890	.61130	1.11210	.99570	.00000	.53470	.00000	.99570
1.955	60.750	12.61970	11.47080	-.93620	.59550	1.12370	.95370	.00000	.53640	.00000	.95370
1.955	62.710	12.90520	11.54350	-.94490	.63020	1.15070	.90670	.00000	.53830	.00000	.90670
1.955	64.710	13.19510	11.59420	-.95420	.66350	1.17330	.85730	.00000	.54030	.00000	.85730
1.955	66.710	13.57400	11.71500	-.97910	.69060	1.20470	.80900	.00000	.54220	.00000	.80900
1.955	68.730	13.85600	11.73780	-1.00440	.67470	1.22010	.75730	.00000	.54430	.00000	.75730
1.955	70.610	14.09910	11.77700	-1.02120	.65910	1.23510	.70750	.00000	.54580	.00000	.70750
1.955	60.680	12.49320	11.17700	-.92450	.59900	1.12340	.94010	.00000	.53790	.00000	.94010
60.00000	60.00000	12.49320	.07669	-.00909	.00622	.01205	-.02144	.00000	.00081	.00000	-.02144

NAFPC 507 (F44) TITAN III C 00N (HDETPI)

(R97044) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN XWRP = 4.0330 IN.  
 LEZF = .0000 IN. YWRP = .0000 IN.  
 BRZF = .0000 IN. ZWRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PW1 = 270.000  
 RUN NO. 304/ 0 RM/L = 0.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLNN	CTN	CTNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	50.470	9.72370	9.43590	-.66130	.48500	.92890	1.20980	.00000	.54170	.00000	1.20360
3.480	52.380	10.17640	9.76900	-.70340	.42560	.97840	1.18580	.00000	.54240	.00000	1.18580
3.480	54.410	10.57490	9.16700	-.73490	.39950	1.00690	1.15150	.00000	.54250	.00000	1.15150
3.480	56.430	10.96810	9.43920	-.76490	.42250	1.04730	1.11650	.00000	.54270	.00000	1.11650
3.480	58.440	11.30550	9.73520	-.78310	.40610	1.07880	1.07650	.00000	.54320	.00000	1.07650
3.480	60.440	11.73980	9.99530	-.82810	.37870	1.10860	1.03150	.00000	.54380	.00000	1.03150
3.480	62.450	12.07680	10.16760	-.83070	.36040	1.13500	.98490	.00000	.54490	.00000	.98490
3.480	64.460	12.42170	10.36840	-.83440	.34070	1.16310	.93890	.00000	.54580	.00000	.93890
3.480	66.460	12.70430	10.46750	-.85730	.32840	1.18480	.89170	.00000	.54720	.00000	.89170
3.480	68.480	12.98590	10.53670	-.86720	.30970	1.20490	.83770	.00000	.54800	.00000	.83770
3.480	70.340	13.22980	10.65030	-.88390	.40350	1.23150	.78490	.00000	.54960	.00000	.78490
3.480	80.440	11.69260	9.92430	-.80780	.37110	1.12790	1.02780	.00000	.54410	.00000	1.02780
GRADIENT		.17592	.11147	-.01055	-.00094	.1472	-.02146	.00000	.00040	.00000	-.02146

RUN NO. 305/ 0 RM/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLNN	CTN	CTNN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	50.290	9.58160	7.69200	-.63750	.25970	.96090	1.28570	.00000	.54990	.00000	1.28570
4.939	52.200	10.02020	8.05030	-.66440	.22020	.99560	1.26610	.00000	.54980	.00000	1.26610
4.939	54.230	10.51210	8.44520	-.70670	.26330	1.06390	1.24200	.00000	.54980	.00000	1.24200
4.939	56.230	10.91580	8.86790	-.74900	.27310	1.10400	1.20040	.00000	.54870	.00000	1.20040
4.939	58.240	11.31840	9.19640	-.76150	.30850	1.15060	1.15430	.00000	.54860	.00000	1.15430
4.939	60.240	11.64550	9.51920	-.80550	.22890	1.14980	1.06290	.00000	.54820	.00000	1.06290
4.939	62.250	12.04490	9.87800	-.80410	.27300	1.17880	1.03480	.00000	.54790	.00000	1.03480
4.939	64.250	12.40970	10.07250	-.83080	.25130	1.20590	.97930	.00000	.54870	.00000	.97930
4.939	66.250	12.69580	10.22290	-.84270	.25720	1.20870	.91320	.00000	.54960	.00000	.91320
4.939	68.260	12.98350	10.43670	-.87010	.25050	1.23700	.85390	.00000	.54970	.00000	.85390
4.939	70.160	13.29740	10.63860	-.88750	.29590	1.27440	.79080	.00000	.55020	.00000	.79080
4.939	80.240	11.60890	9.50730	-.80540	.25920	1.16900	1.09030	.00000	.54780	.00000	1.09030
GRADIENT		.18528	.14882	-.01174	.00091	.01456	-.02550	.00000	-.00000	.00000	-.02550



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 587

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NSFC 587 (FA4) TITAN III: C SHM (INSTEP)

(R07045) ( 23 APR 74 )

## REFERENCE DATA

REF = .6340 94. IN XMRP = 4.6330 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 REF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 27C.030  
 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 166/ 0 RM/L = 4.89 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.596	70.430	9.47640	12.14750	.17240	.93140	.8590	-.10430	.00000	.49930	.00000	-.10430
.596	72.330	9.80390	11.89880	.12630	.88750	.88090	-.13000	.00000	.49470	.00000	-.13000
.596	74.310	9.53630	11.23240	.05210	.72840	.88640	-.17860	.00000	.50240	.00000	-.17860
.596	76.270	9.32010	9.79240	-.15010	.33390	.90190	-.04110	.00000	.51850	.00000	-.04110
.596	78.250	9.31510	9.14580	-.09800	.45010	.92540	-.03740	.00000	.52720	.00000	-.03740
.596	80.260	9.24590	8.51830	-.04360	.62890	.93240	-.00440	.00000	.53430	.00000	-.00440
.596	82.240	9.30920	7.99810	.16980	.56780	.94800	.03620	.00000	.54270	.00000	.03620
.596	84.220	9.42800	7.25570	.22700	.40420	.93040	.07950	.00000	.54110	.00000	.07950
.596	86.180	9.55850	6.54300	.13590	.61510	.96040	.13100	.00000	.54880	.00000	.13100
.596	88.140	9.57560	5.87710	-.08970	.75020	1.02510	.16800	.00000	.57360	.00000	.16800
.596	90.070	9.55920	5.34450	-.12570	.58900	1.06010	.11930	.00000	.56070	.00000	.11930
.596	92.240	9.25370	8.51030	.04440	.63690	.92830	.00390	.00000	.53510	.00000	.00390
GRADIENT		.00260	-.36124	-.00492	-.00981	.00868	.01697	.00000	.00483	.00000	.01697

RUN NO. 167/ 0 RM/L = 6.21 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.901	70.620	10.80610	11.40240	-.41330	.38080	.99250	.41900	.00000	.51790	.00000	.41900
.901	72.480	10.95780	11.15010	-.43070	.42820	1.01740	.38520	.00000	.52270	.00000	.38520
.901	74.470	11.01910	10.85050	-.44280	.44670	1.03350	.34170	.00000	.52680	.00000	.34170
.901	76.450	11.10870	10.57130	-.44390	.43390	1.05160	.29080	.00000	.53100	.00000	.29080
.901	78.430	11.31160	10.22660	-.42710	.37710	1.07260	.28160	.00000	.53710	.00000	.28160
.901	80.410	11.34170	9.74790	-.38660	.29160	1.06660	.26090	.00000	.54270	.00000	.26090
.901	82.410	11.49690	9.31570	-.40110	.32790	1.07830	.25030	.00000	.54860	.00000	.25030
.901	84.380	11.51230	8.75970	-.45640	.38220	1.10040	.20130	.00000	.55320	.00000	.20130
.901	86.330	11.61720	8.05480	-.50980	.39880	1.13920	.19310	.00000	.56370	.00000	.19310
.901	88.320	11.75980	7.43240	-.52990	.42930	1.17280	.17590	.00000	.57070	.00000	.17590
.901	90.190	11.81370	6.50870	-.54320	.42770	1.19900	.15260	.00000	.57750	.00000	.15260
.901	92.440	11.49690	5.99550	-.39400	.30980	1.07620	.26470	.00000	.54220	.00000	.26470
GRADIENT		.05038	-.23103	-.00372	-.00046	.00957	-.01313	.00000	.00305	.00000	-.01313

NSPC 507 (F44) TITAN III C 88M (HSETP)

(007045) ( 23 APR 74 )

## REFERENCE DATA.

SREF = .0300 90. IN XMP = 4.0330 IN.  
 LREF = .0000 IN. YMP = .0000 IN.  
 BREF = .0000 IN. ZMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 136/ 0 RM/L = 0.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.194	70.810	13.50450	13.30330	-7.7540	.49900	1.17840	.51120	.00000	.52800	.00000	.51120
1.194	72.670	13.72070	13.05910	-8.1720	.56200	1.20680	.49440	.00000	.53100	.00000	.49440
1.194	74.630	13.91280	12.70600	-8.5030	.59760	1.22240	.45450	.00000	.53300	.00000	.45450
1.194	76.630	14.08140	12.38370	-8.8660	.62540	1.24320	.42400	.00000	.54020	.00000	.42400
1.194	78.600	14.23610	11.93040	-9.2980	.61740	1.26230	.39950	.00000	.54540	.00000	.39950
1.194	80.590	14.38170	11.52870	-9.8140	.63930	1.28220	.36220	.00000	.55010	.00000	.36220
1.194	82.570	14.52350	11.18390	-9.8370	.63260	1.30740	.32300	.00000	.55400	.00000	.32300
1.194	84.550	14.66960	10.87590	-9.8450	.63030	1.31370	.27950	.00000	.55770	.00000	.27950
1.194	86.510	14.74420	10.50120	-9.8520	.63190	1.32670	.25260	.00000	.56130	.00000	.25260
1.194	88.510	14.80470	10.11610	-9.8150	.65890	1.33600	.21040	.00000	.56500	.00000	.21040
1.194	90.380	14.86700	9.70150	-9.5090	.67780	1.35100	.19110	.00000	.56890	.00000	.19110
1.194	90.590	14.90510	11.51740	-8.4340	.62320	1.27170	.36470	.00000	.55010	.00000	.35470
GRADIENT	.06974		-.18751	-.00715	.00667	.00871	-.01712	.00000	.00217	.00000	-.01712

RUN NO. 247/ 0 RM/L = 0.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.981	70.760	13.90250	11.54960	-1.00410	.84790	1.22980	.73560	.00000	.54630	.00000	.73560
1.981	72.640	14.16950	11.61580	-.99890	.65140	1.24830	.60380	.00000	.54770	.00000	.60380
1.981	74.660	14.40060	11.60220	-.99950	.65490	1.26000	.62310	.00000	.54950	.00000	.62310
1.981	76.650	14.63720	11.54720	-1.00080	.64150	1.26160	.56250	.00000	.55160	.00000	.56250
1.981	78.650	14.80370	11.42750	-.99630	.63050	1.26510	.50920	.00000	.55380	.00000	.50920
1.981	80.680	15.00060	11.29590	-.98200	.64590	1.27780	.44960	.00000	.55620	.00000	.44960
1.981	82.640	15.14550	11.08090	-.97690	.64760	1.28140	.39360	.00000	.55890	.00000	.39360
1.981	84.620	15.26610	10.82370	-.98550	.66330	1.29440	.34550	.00000	.56170	.00000	.34550
1.981	86.580	15.32720	10.49860	-1.00470	.66470	1.29880	.29700	.00000	.56480	.00000	.29700
1.981	88.580	15.39810	10.18900	-1.00610	.69190	1.31000	.24400	.00000	.56770	.00000	.24400
1.981	90.440	15.41240	9.90450	-1.01690	.69270	1.31370	.17790	.00000	.57010	.00000	.17790
1.981	90.630	14.95250	11.22500	-.98670	.63420	1.27280	.45150	.00000	.55650	.00000	.45150
GRADIENT	.07737		-.08729	-.00027	.00214	.00397	-.02792	.00000	.00124	.00000	-.02792



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TABULATED SOURCE DATA, MSFC TWT 507

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MSFC 507 (FAA) TITAN III C 0RM (MRETP)

(R07043) ( 23 APR 74 )

## REFERENCE DATA

REF = .6300 IN. IMP = 4.0330 IN.  
 LREF = .9000 IN. YREF = .0000 IN.  
 REF = .9000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 270.003

RUN NO. 307/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CTMM	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	70.320	13.29610	10.74410	-.06110	.34590	1.17910	.01580	.00000	.54920	.00000	.01590
3.400	72.420	13.57700	10.85650	-.05860	.35910	1.21430	.76560	.00000	.55730	.00000	.76560
3.400	74.440	13.81910	10.87080	-.05540	.36040	1.22990	.71530	.00000	.55190	.00000	.71530
3.400	76.430	14.02990	10.81950	-.05720	.37230	1.25570	.65390	.00000	.55390	.00000	.65390
3.400	78.450	14.24040	10.71260	-.06550	.37320	1.25350	.59130	.00000	.55630	.00000	.59130
3.400	80.430	14.39260	10.46540	-.06890	.39310	1.26770	.51950	.00000	.55940	.00000	.51950
3.400	82.420	14.57100	10.26480	-.06880	.43360	1.29090	.46010	.00000	.56230	.00000	.46010
3.400	84.410	14.69800	10.05410	-.06340	.45150	1.30800	.40060	.00000	.56490	.00000	.40060
3.400	86.390	14.77430	9.80390	-.05460	.45850	1.31360	.33090	.00000	.56730	.00000	.33090
3.400	88.390	14.81830	9.56260	-.04990	.45590	1.30950	.25790	.00000	.56980	.00000	.25790
3.400	90.260	14.85700	9.35530	-.05180	.46210	1.33520	.20140	.00000	.57180	.00000	.20140
3.400	90.410	14.40090	10.45750	-.07100	.39600	1.26720	.52540	.00000	.55960	.00000	.52540
GRADIENT		.07929	-.07918	.00045	.00724	.00730	-.03157	.00000	.00122	.00000	-.03157

RUN NO. 306/ 1 RM/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CTMM	CBL	CA	CAB	KCP/L	CPB1	CAF
4.999	70.320	13.26610	10.33570	-.06390	.27260	1.18210	.09060	.00000	.55290	.00000	.09060
4.999	72.400	13.58570	10.47960	-.06160	.28750	1.21720	.02920	.00000	.55980	.00000	.02920
4.999	74.220	13.80840	10.49060	-.05690	.34970	1.27240	.77700	.00000	.55510	.00000	.77700
4.999	76.220	14.03830	10.50570	-.06190	.34680	1.27640	.71260	.00000	.55680	.00000	.71260
4.999	78.220	14.26890	10.38450	-.06960	.38700	1.29920	.65640	.00000	.55950	.00000	.65640
4.999	80.220	14.43580	10.27360	-.07180	.37000	1.28780	.56600	.00000	.56170	.00000	.56600
4.999	82.210	14.60070	10.15400	-.06760	.36770	1.31450	.46850	.00000	.56350	.00000	.46850
4.999	84.210	14.75010	9.95090	-.07720	.36520	1.33150	.41620	.00000	.56610	.00000	.41620
4.999	86.230	14.86210	9.84810	-.05980	.40990	1.33370	.33240	.00000	.56760	.00000	.33240
4.999	88.220	14.80040	9.65300	-.05670	.36590	1.33820	.25360	.00000	.56840	.00000	.25360
4.999	90.100	14.80040	9.52780	-.05910	.42610	1.33330	.18240	.00000	.57050	.00000	.18240
4.999	90.220	14.40940	10.22370	-.06630	.35800	1.32180	.37520	.00000	.56170	.00000	.37520
GRADIENT		.08342	-.04859	.00077	.00592	.00707	-.03634	.00000	.00093	.00000	-.03634

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TABULATED SOURCE DATA, NSPC TWT 507

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NSPC 507 (P44) TITAN III C SHW (MDETR)

(007046) ( 23 APR 74 )

## REFERENCE DATA

REF = .6303 2d. IN XMRP = 4.6338 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 SREF = .9100 IN. ZMRP = .0000 IN.  
 SCALE = .0014

## PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 227/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

NAME	ALPHA	CMN	CLMN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
.599	109.560	8.76790	-43170	.20038	-.24438	1.04120	-.02490	.00000	.63770	.00000	-.02490
.599	107.650	8.97570	-03410	.14500	-.28460	1.04060	.00040	.00000	.63200	.00000	.00040
.599	105.650	8.97010	.33250	.14070	-.32800	1.05260	.17670	.00000	.64680	.00000	.17670
.599	103.660	9.07140	.73390	.09340	-.37350	1.07130	.29960	.00000	.64100	.00000	.29960
.599	101.670	9.17600	1.17320	.02810	-.37500	1.08240	.37490	.00000	.63530	.00000	.37490
.599	99.680	9.18340	1.58870	.01270	-.41460	1.08620	.46420	.00000	.62960	.00000	.46420
.599	97.690	9.23170	2.11620	.00470	-.39600	1.08360	.48950	.00000	.62250	.00000	.48950
.599	95.710	9.26180	2.70770	-.06350	-.31390	1.04940	.35680	.00000	.61450	.00000	.35680
.599	93.720	9.39020	3.20580	.02890	-.31740	1.06380	.34540	.00000	.60830	.00000	.34540
.599	91.710	9.41830	3.70660	-.04130	-.26610	1.05240	.36400	.00000	.60170	.00000	.36400
.599	89.690	9.51910	4.26190	.02670	-.39410	1.04430	.35780	.00000	.59480	.00000	.35780
.599	87.680	9.17050	1.56520	.01250	-.39270	1.07690	.45720	.00000	.62990	.00000	.45720
GRADIENT	-.03476	-.23608	.00248	.00999	.00248	-.00025	-.01744	.00000	.00320	.00000	-.01744

RUN NO. 228/ 0 RN/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

NAME	ALPHA	CMN	CLMN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
.904	109.330	10.75750	1.81170	-.33780	.35300	1.15360	-.16770	.00000	.83250	.00000	-.16770
.904	107.410	10.94710	2.08460	-.33640	.32970	1.16730	-.04780	.00000	.82740	.00000	-.04780
.904	105.460	11.12350	2.36280	-.34370	.33420	1.17710	.07430	.00000	.82210	.00000	.07430
.904	103.480	11.26740	3.03910	-.35740	.31660	1.19130	.18800	.00000	.81740	.00000	.18800
.904	101.490	11.43340	3.34810	-.37270	.39990	1.20350	.22440	.00000	.81230	.00000	.22440
.904	99.490	11.45860	3.95690	-.39070	.43420	1.19000	.18510	.00000	.80780	.00000	.18510
.904	97.530	11.55310	4.40920	-.39730	.39980	1.19710	.16940	.00000	.80320	.00000	.16940
.904	95.550	11.56870	4.90300	-.40360	.33700	1.19010	.21040	.00000	.89780	.00000	.21040
.904	93.570	11.71270	5.37590	-.41950	.32780	1.18260	.22590	.00000	.89120	.00000	.22590
.904	91.600	11.87110	6.26210	-.40300	.34350	1.16410	.25470	.00000	.88470	.00000	.25470
.904	89.740	11.94680	7.23540	-.33740	.10950	1.13450	.27980	.00000	.87480	.00000	.27980
.904	87.800	11.58180	4.02650	-.40560	.43270	1.20210	.19080	.00000	.80750	.00000	.19080
GRADIENT	-.02576	-.26920	.00271	.00524	.00524	.00346	-.01803	.00000	.00277	.00000	-.01803

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TABULATED SOURCE DATA, NSFC TWT 587

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NSFC 587 (FAA) TITAN III C SRM (MSETP)

( 23 APR 74 )

## REFERENCE DATA

REF = -0.000 IN. XMRP = 4.0338 IN.  
LREF = -0.000 IN. YMRP = -0.000 IN.  
BREF = -0.000 IN. ZMRP = -0.000 IN.  
SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PMI = 270.000

RUN NO. 229/ 0 RM/L = 0.01 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.200	109.220	13.19200	4.19930	-74100	.67910	1.26000	-90730	.00000	.61120	.00000	-30730
1.200	107.330	13.44940	4.67740	-74210	.68000	1.27360	-39040	.00000	.60750	.00000	-39040
1.200	105.390	13.70740	5.24000	-72600	.75960	1.29960	-27220	.00000	.60310	.00000	-27220
1.200	103.370	14.01950	5.93010	-70710	.86480	1.31700	-16660	.00000	.59790	.00000	-16660
1.200	101.400	14.21220	6.66400	-69300	.98820	1.32020	-00740	.00000	.59210	.00000	-00740
1.200	99.430	14.37680	7.31680	-70180	.90960	1.31910	.03000	.00000	.58710	.00000	.03000
1.200	97.450	14.43680	7.80320	-71300	.92360	1.31950	.11450	.00000	.58300	.00000	.11450
1.200	95.470	14.53790	8.27140	-71890	.80700	1.31900	.17790	.00000	.57950	.00000	.17790
1.200	93.490	14.67880	8.70040	-72030	.86270	1.32880	.23410	.00000	.57650	.00000	.23410
1.200	91.490	14.87160	9.00490	-70800	.85360	1.31810	.27690	.00000	.57300	.00000	.27690
1.200	89.490	14.67120	9.36780	-68820	.83040	1.30740	.30800	.00000	.57070	.00000	.30800
1.200	99.430	14.35270	7.33630	-69320	.91410	1.32700	.02210	.00000	.56680	.00000	.02210
1.200	GRADIENT	-0.07396	-0.27397	-0.00179	-0.00836	-0.00233	-0.04217	.00000	.00214	.00000	-0.04217

RUN NO. 239/ 0 RM/L = 0.90 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.949	109.270	13.58970	6.44890	-60330	.98670	1.19070	-57110	.00000	.59140	.00000	-57110
1.949	107.390	13.85590	6.79300	-60200	.92330	1.21540	-46640	.00000	.58950	.00000	-46640
1.949	105.380	14.14140	7.17270	-63190	.96290	1.22900	-36180	.00000	.58730	.00000	-36180
1.949	103.390	14.35520	7.55340	-63490	.97970	1.25310	-25960	.00000	.58490	.00000	-25960
1.949	101.390	14.67200	7.94870	-63200	.99700	1.24150	-14960	.00000	.58290	.00000	-14960
1.949	99.370	14.85740	8.24360	-67730	1.01840	1.29400	-05010	.00000	.58130	.00000	-05010
1.949	97.380	15.03960	8.60980	-68960	1.01730	1.30990	.04070	.00000	.57900	.00000	.04070
1.949	95.390	15.19780	9.06520	-71460	1.02100	1.31340	.12320	.00000	.57680	.00000	.12320
1.949	93.400	15.32230	9.29490	-72390	1.06190	1.32550	.20220	.00000	.57500	.00000	.20220
1.949	91.410	15.38830	9.53110	-74280	1.07120	1.33290	.27720	.00000	.57290	.00000	.27720
1.949	89.450	15.49090	9.83010	-74140	1.08410	1.33280	.33730	.00000	.57100	.00000	.33730
1.949	99.430	14.74190	8.29980	-64850	1.00440	1.27970	-06690	.00000	.56820	.00000	-06690
1.949	GRADIENT	-0.09827	-0.17262	-0.00760	-0.00919	-0.00723	-0.04650	.00000	.00193	.00000	-0.04650



NSFC 507(744) TITAN III C SRM (MSETP)

(1897046) ( 23 APR 74 )

## REFERENCE DATA

ORIF = .0300 IN. INMP = 4.0330 IN.  
 ORIF = .0000 IN. INMP = .0000 IN.  
 ORIF = .0000 IN. INMP = .0000 IN.  
 SCALE = .0074

BETA = .008 PHI = 270.000

## PARAMETRIC DATA

RUN NO. 276/ 0 RM/L = 0.35 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	CMN	CLMN	CTN	CTNM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	109.400	13.04090	6.07720	-4.8110	.67300	1.17470	-.51370	.00000	.59250	.00000	-.51370
3.400	107.500	13.34020	6.40910	-4.8050	.71120	1.18040	-.45000	.00000	.59010	.00000	-.45000
3.400	105.500	13.59560	6.84630	-4.9740	.70590	1.20150	-.32700	.00000	.58770	.00000	-.32700
3.400	103.570	13.84070	7.29400	-5.0080	.70030	1.21560	-.23760	.00000	.58520	.00000	-.23760
3.400	101.500	14.04370	7.67350	-5.2100	.70230	1.23330	-.14410	.00000	.58230	.00000	-.14410
3.400	99.590	14.24370	8.04140	-5.3910	.72030	1.25080	-.06190	.00000	.58000	.00000	-.06190
3.400	97.590	14.39690	8.39640	-5.5020	.71560	1.26800	.02320	.00000	.57770	.00000	.02320
3.400	95.600	14.53470	8.71730	-5.6000	.73500	1.28630	.10150	.00000	.57560	.00000	.10150
3.400	93.610	14.66740	8.97940	-5.6470	.75970	1.25040	.18000	.00000	.57400	.00000	.18000
3.400	91.590	14.76080	9.23320	-6.0120	.75230	1.26230	.26240	.00000	.57230	.00000	.26240
3.400	89.720	14.79560	9.48350	-6.0480	.75130	1.26550	.32930	.00000	.57030	.00000	.32930
3.400	87.590	14.80920	9.66390	-6.3310	.72330	1.21920	-.06680	.00000	.57960	.00000	-.06680
GRADIENT		-.00824	-.17402	.00681	-.00366	-.00481	-.04281	.00000	.00113	.00000	-.04281

RUN NO. 277/ 0 RM/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	CMN	CLMN	CTN	CTNM	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	109.000	13.14200	6.24320	-4.0230	.66410	1.20450	-.54830	.00000	.59140	.00000	-.54830
4.959	107.700	13.43180	6.55730	-4.3420	.64680	1.21440	-.42990	.00000	.58980	.00000	-.42990
4.959	105.760	13.80210	6.93550	-4.3380	.63340	1.24730	-.33150	.00000	.58770	.00000	-.33150
4.959	103.780	13.99660	7.24250	-4.5770	.66730	1.26160	-.23180	.00000	.58600	.00000	-.23180
4.959	101.760	14.23220	7.56020	-4.6100	.65020	1.27060	-.14210	.00000	.58430	.00000	-.14210
4.959	99.760	14.45050	7.88030	-4.6540	.66410	1.28300	-.06990	.00000	.58230	.00000	-.06990
4.959	97.760	14.67400	8.15180	-4.6830	.68280	1.29070	.01090	.00000	.58120	.00000	.01090
4.959	95.740	14.75820	8.41210	-5.1710	.71460	1.29670	.10350	.00000	.57930	.00000	.10350
4.959	93.770	14.81600	8.56610	-5.4880	.72960	1.30440	.18300	.00000	.57830	.00000	.18300
4.959	91.750	14.92990	8.74910	-5.5060	.71310	1.29740	.27050	.00000	.57730	.00000	.27050
4.959	89.870	14.96620	8.83830	-5.5710	.69100	1.32340	.34650	.00000	.57650	.00000	.34650
4.959	87.760	14.92050	7.86490	-4.7990	.67150	1.27650	-.07000	.00000	.58240	.00000	-.07000
GRADIENT		-.09049	-.13469	.00722	-.00350	-.00542	-.04394	.00000	.00077	.00000	-.04394



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TABULATED SOURCE DATA, NSFC TWT 987

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NSFC 987 (FAA) TITAN III C SRM (HDET9)

(187047) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN ZMRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 DREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 226/ 0 RM/L = 4.92 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CMW	CLW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	129.510	0.94110	-3.33020	-1.5130	-2.3700	.06140	-.08520	.00000	.71250	.00000	-.00320
.998	127.590	7.16190	-3.22390	-.17720	-.04450	.09070	-.78930	.00000	.70640	.00000	-.78930
.998	125.580	7.46060	-3.14450	-.10550	-.08110	.00360	-.69460	.00000	.70490	.00000	-.69460
.998	123.600	7.76830	-2.91350	.04850	-.10310	.92170	-.59700	.00000	.69890	.00000	-.59700
.998	121.590	6.00640	-2.67230	.02280	-.09860	.94350	-.49760	.00000	.69370	.00000	-.49760
.998	119.570	0.20720	-2.12680	.19800	.30320	.91170	-.43140	.00000	.68430	.00000	-.43140
.998	117.600	0.37750	-1.63310	.16270	.26440	.95270	-.33760	.00000	.67620	.00000	-.33760
.998	115.590	0.53390	-1.24010	.16190	.11210	.96750	-.23940	.00000	.66990	.00000	-.23940
.998	113.610	0.71030	-.83200	.21280	-.07840	.98460	-.15210	.00000	.66360	.00000	-.15210
.998	111.600	0.82150	-.47470	.23190	-.19840	1.00690	-.05730	.00000	.65830	.00000	-.05730
.998	109.720	0.92100	-.16300	.17750	-.23790	1.01150	.05210	.00000	.65390	.00000	.05210
.998	119.590	0.10730	-2.13690	.15790	.31350	.89900	-.44420	.00000	.64450	.00000	-.44420
.998	GRADIENT	-.10124	-.17455	-.02114	-.00181	-.00712	-.04622	.00000	.00316	.00000	-.04622

RUN NO. 225/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	129.250	0.06540	-2.71390	-.28450	.17020	.07000	-1.15580	.00000	.69410	.00000	-1.15580
.998	127.350	0.40240	-2.39220	-.30130	.19320	.92420	-1.04990	.00000	.68750	.00000	-1.04990
.998	125.350	0.74890	-2.01600	-.38140	.24550	.96310	-.96720	.00000	.68060	.00000	-.96720
.998	123.350	0.07380	-1.85770	-.44710	.30720	.99470	-.85530	.00000	.67460	.00000	-.85530
.998	121.350	0.41690	-1.21940	-.42970	.35070	1.04040	-.76855	.00000	.66790	.00000	-.76855
.998	119.360	0.70970	-.77380	-.41240	.38680	1.03310	-.67220	.00000	.66160	.00000	-.67220
.998	117.370	0.94580	-.30140	-.40250	.41320	1.08590	-.55260	.00000	.65530	.00000	-.55260
.998	115.380	10.23390	.24420	-.38810	.40040	1.10150	-.45420	.00000	.64950	.00000	-.45420
.998	113.390	10.46440	.76160	-.33500	.29840	1.12790	-.35020	.00000	.64230	.00000	-.35020
.998	111.390	10.60990	1.24650	-.32230	.27350	1.13730	-.23750	.00000	.63670	.00000	-.23750
.998	109.520	10.81900	1.71860	-.33010	.29950	1.14970	-.12840	.00000	.63140	.00000	-.12840
.998	119.360	0.70970	-.77380	-.40430	.43050	1.06270	-.68170	.00000	.66060	.00000	-.68170
.998	GRADIENT	-.14150	-.22800	.00010	-.00632	-.01358	-.05155	.00000	.00319	.00000	-.05155

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

DATE 11 JUL 74

TABULATED SOURCE DATA, MOPC TWT 567

MOPC 567 (PAA) TITAN 111 C SEM (MRETP)

PAGE 08

(207047) ( 23 APR 74 )

REFERENCE DATA

REF = -6388 96. IN XMP = 4.6336 IN.  
 LREF = -9000 IN. TREF = -9000 IN.  
 REF = -9000 IN. ZREF = -9000 IN.  
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 224/ 0 RM/L = 0.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.196	129.100	9.93080	.28360	-.62070	.43860	.97130	-1.43120	.00000	.64790	.00000	-1.43120
1.196	127.270	10.34570	.58930	-.63940	.47130	1.02340	-1.36580	.00000	.64430	.00000	-1.36580
1.196	125.260	10.84990	.97720	-.65890	.51330	1.07070	-1.27500	.00000	.64010	.00000	-1.27500
1.196	123.260	11.33120	1.46640	-.69330	.54690	1.10350	-1.19490	.00000	.63490	.00000	-1.19490
1.196	121.270	11.73120	1.99980	-.71730	.54610	1.13730	-1.10160	.00000	.62990	.00000	-1.10160
1.196	119.270	12.11270	2.46450	-.72050	.57400	1.15810	-1.00520	.00000	.62570	.00000	-1.00520
1.196	117.270	12.48670	2.86100	-.73770	.63010	1.19360	-.90790	.00000	.62250	.00000	-.90790
1.196	115.270	12.70440	3.15960	-.73080	.63360	1.22330	-.79170	.00000	.62000	.00000	-.79170
1.196	113.270	12.96300	3.48980	-.73670	.64400	1.24110	-.67790	.00000	.61750	.00000	-.67790
1.196	111.280	13.25520	3.92900	-.74710	.66480	1.27260	-.55810	.00000	.61400	.00000	-.55810
1.196	109.390	13.49590	4.34690	-.75290	.71610	1.27850	-.44820	.00000	.61070	.00000	-.44820
1.196	119.270	12.07110	2.45370	-.70920	.78310	1.16010	-1.00480	.00000	.62370	.00000	-1.00480
GRADIENT		-.17879	-.20749	.00647	-.01398	-.01526	-.05043	.00000	.00168	.00000	-.05043

RUN NO. 259/ 0 RM/L = 0.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.962	129.280	9.71400	2.67030	-.48390	.47690	.86190	-1.92360	.00000	.61670	.00000	-1.92360
1.962	127.370	10.15420	3.05040	-.49700	.53690	.82020	-1.43170	.00000	.61350	.00000	-1.43170
1.962	125.360	10.53570	3.37800	-.50910	.59660	.96650	-1.34170	.00000	.61130	.00000	-1.34170
1.962	123.360	11.09630	3.81630	-.50970	.66210	.99900	-1.24370	.00000	.60790	.00000	-1.24370
1.962	121.350	11.53090	4.17250	-.53100	.70930	1.03110	-1.14520	.00000	.60570	.00000	-1.14520
1.962	119.310	11.98820	4.50170	-.55060	.75450	1.06300	-1.04460	.00000	.60390	.00000	-1.04460
1.962	117.340	12.32350	4.91690	-.57300	.76170	1.09080	-.93860	.00000	.60100	.00000	-.93860
1.962	115.320	12.66020	5.31380	-.58990	.79640	1.12230	-.83150	.00000	.59840	.00000	-.83150
1.962	113.310	13.12240	5.72550	-.59370	.81520	1.16020	-.73090	.00000	.59630	.00000	-.73090
1.962	111.320	13.40200	6.15670	-.59940	.83990	1.17760	-.61990	.00000	.59330	.00000	-.61990
1.962	109.450	13.68100	6.55430	-.59570	.86030	1.19790	-.52320	.00000	.59080	.00000	-.52320
1.962	119.360	11.69350	4.62190	-.54240	.72460	1.05340	-1.03240	.00000	.60230	.00000	-1.03240
GRADIENT		-.20144	-.19413	.00649	-.01866	-.01595	-.05061	.00000	.00127	.00000	-.05061

TABULATED SOURCE DATA, NSFC TWT 507

DATE 11 JUL 74

(R07047) ( 21 APR 74 )

NSFC 507 (FAA) TITAN 131 C SRM (MDETP)

PARAMETRIC DATA

BT TA = .000 PNI = 270.000

REFERENCE DATA

REF = .0300 IN XMRP = 4.6330 IN.  
LREF = .0000 IN. YMRP = .0000 IN.  
BREF = .0000 IN. ZMRP = .0000 IN.  
SCALE = .0074

RUN NO. 275/ 0 RM/L = 0.35 GRADIENT INTERVAL = -3.00/ 5.00

WACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	129.510	0.90000	2.03330	-3.3070	.46140	.03400	-1.50250	.00000	.01150	.00000	-1.56250
3.480	127.620	0.40760	3.17700	-3.6070	.47660	.07260	-1.44050	.00000	.00910	.00000	-1.44050
3.480	125.590	0.90030	3.47040	-3.7700	.51590	.09530	-1.32370	.00000	.00740	.00000	-1.32370
3.480	123.500	10.40010	3.79200	-3.9420	.52950	.03800	-1.19500	.00000	.00340	.00000	-1.19500
3.480	121.500	10.06470	4.12630	-4.0480	.55780	.07320	-1.07780	.00000	.00340	.00000	-1.07780
3.480	119.500	11.30050	4.41170	-4.2080	.57660	1.00250	-.96560	.00000	.00210	.00000	-.96560
3.480	117.500	11.74010	4.74650	-4.4430	.61660	.97230	-.86710	.00000	.00030	.00000	-.86710
3.480	115.500	12.10150	5.03110	-4.5390	.61420	1.06020	-.75010	.00000	.00000	.00000	-.75010
3.480	113.500	12.40000	5.35590	-4.7140	.64700	1.06450	-.65920	.00000	.00000	.00000	-.65920
3.480	111.500	12.81060	5.69020	-4.8200	.66070	1.10320	-.56020	.00000	.00000	.00000	-.56020
3.480	109.500	13.00460	6.01720	-4.9280	.66430	1.12190	-.46860	.00000	.00000	.00000	-.46860
3.480	119.570	11.29150	4.41770	-4.52100	.56900	.97070	-.97400	.00000	.00200	.00000	-.97400
GRADIENT		-.20674	-.15770	.00744	-.01140	-.01447	-.05497	.00000	.00000	.00000	-.05497

RUN NO. 276/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	129.670	0.92910	3.12370	-.29440	.50190	.03590	-1.67720	.00000	.00720	.00000	-1.67720
4.959	127.700	0.43770	3.45270	-.29810	.53070	.07370	-1.55610	.00000	.00520	.00000	-1.55610
4.959	125.760	0.91760	3.73150	-.32920	.51500	.03330	-1.40430	.00000	.00390	.00000	-1.40430
4.959	123.750	10.42910	3.99720	-.33210	.54390	.06360	-1.26310	.00000	.00300	.00000	-1.26310
4.959	121.750	10.94130	4.29480	-.35080	.59700	1.02510	-1.13160	.00000	.00180	.00000	-1.13160
4.959	119.740	11.53410	4.63210	-.36720	.57170	1.06000	-1.01030	.00000	.00060	.00000	-1.01030
4.959	117.720	11.84950	4.79250	-.36280	.56320	1.07760	-.87110	.00000	.00030	.00000	-.87110
4.959	115.710	12.21480	5.10940	-.39760	.62170	1.07980	-.76750	.00000	.00000	.00000	-.76750
4.959	113.730	12.64270	5.39350	-.40800	.65090	1.11790	-.65300	.00000	.00000	.00000	-.65300
4.959	111.710	13.00840	5.70720	-.40910	.65700	1.14180	-.56370	.00000	.00000	.00000	-.56370
4.959	109.650	13.26340	5.99550	-.41380	.70170	1.16190	-.43760	.00000	.00000	.00000	-.43760
4.959	119.740	11.30910	4.54710	-.35340	.60970	1.02330	-1.00600	.00000	.00060	.00000	-1.00600
GRADIENT		-.22130	-.14145	.00644	-.00936	-.01612	-.06180	.00000	.00000	.00000	-.06180

DATE 11 JUL 74

TABULATED SOURCE DATA, NDFC TWT 567

PAGE 02

NDFC 567 (744) TITAN III C SRM (NDFTP)

(097040) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN XIMP = 4.0330 IN.  
LREF = .0000 IN. YIMP = .0000 IN.  
REF = .0000 IN. ZIMP = .0000 IN.  
SCALE = .0074

BETA = .000 PHI = 270.000

## PARAMETRIC DATA

RUN NO. 91/ 0 RM/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.199	147.970	6.17340	-2.23500	-.95230	-.66530	.74370	-2.00000	.24800	.69730	-.24800	-2.24970
1.199	145.940	6.62420	-1.99960	-1.04300	-.62160	.60970	-1.96580	.26910	.69860	-.26910	-2.23490
1.199	143.830	7.32120	-1.74230	-1.19640	-.44960	.67090	-1.91180	.27090	.69080	-.27090	-2.19080
1.199	141.690	8.16430	-1.47350	-1.27300	-.20540	.92140	-1.86910	.30310	.67440	-.30310	-2.17420
1.199	139.590	8.81990	-1.11960	-1.29190	.07440	.97120	-1.82170	.32610	.66750	-.32610	-2.14780
1.199	137.440	9.44980	-.70030	-1.29020	.30280	1.02980	-1.77610	.36070	.66090	-.36070	-2.13690
1.199	135.340	9.99620	-.42390	-1.22600	.50420	1.06200	-1.69730	.39630	.65680	-.39630	-2.09360
1.199	133.250	10.42990	-.24640	-1.14930	.66480	1.09970	-1.59580	.32670	.65450	-.32670	-1.92260
1.199	131.160	10.85380	-.21830	-1.11370	.70240	1.12340	-1.49640	.31320	.65400	-.31320	-1.79970
1.199	129.090	11.13770	-.31200	-1.08890	.72130	1.14080	-1.39060	.30100	.65500	-.30100	-1.68170
1.199	127.120	11.34750	-.25980	-1.00210	.65170	1.16050	-1.27640	.29310	.65440	-.29310	-1.57190
1.199	127.440	9.43020	-.75450	-1.28100	.40440	1.01630	-1.76330	.34060	.66160	-.34060	-2.10390
GRADIENT		-.25517	-.10379	-.00085	-.07674	-.02003	-.05419	-.00230	.00206	.00230	-.03180

RUN NO. 92/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	149.030	4.48050	.57660	-.23610	-.03770	.40690	-2.18430	.05120	.63510	-.05120	-2.23560
3.400	147.060	4.94180	.74690	-.28430	.02880	.43440	-2.16310	.04320	.63230	-.04320	-2.20830
3.400	144.980	5.42090	.85890	-.27810	.06320	.49790	-2.10410	.03160	.63140	-.03160	-2.13590
3.400	142.900	5.94220	1.04710	-.30650	.12320	.53720	-.08000	.01830	.62920	-.01830	-2.09930
3.400	140.850	6.42330	1.15920	-.32710	.16730	.58330	-2.01150	.00640	.62860	-.00640	-2.01790
3.400	138.750	6.94240	1.31060	-.35470	.21430	.63310	-1.94930	-.00440	.62740	.00440	-1.94480
3.400	136.670	7.43750	1.48030	-.36350	.27830	.67310	-1.87560	-.01820	.62630	.01820	-1.85740
3.400	134.600	7.93190	1.68230	-.37080	.31190	.72740	-1.81460	-.03330	.62480	.03330	-1.78070
3.400	132.540	8.42650	1.89640	-.39330	.39210	.76810	-1.69740	-.04620	.62360	.04620	-1.65110
3.400	130.450	8.92210	2.05940	-.39630	.40590	.81080	-1.58960	-.06340	.62230	.06340	-1.52820
3.400	128.400	9.43700	2.31380	-.42480	.45160	.84870	-1.48030	-.08120	.62040	.08120	-1.39900
3.400	126.750	6.90590	1.25780	-.34080	.20740	.61880	-1.94260	-.00440	.62840	.00440	-1.93820
GRADIENT		-.24106	-.08139	.00878	-.02291	-.02197	-.03387	.00637	.00065	-.00637	-.04025



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 507

(037049) ( 23 APR 74 )

NSFC 507 (PA4) TITAN III C SRM (HDET)

PARAMETRIC DATA

BETA = .000 PHI = 270.000

REFERENCE DATA

0300 90. IN YIMP = 4.0330 IN.  
0800 10. YIMP = .0000 IN.  
0900 10. YIMP = .0000 IN.  
SCALE = .0074

RUN NO. 00/ 0 RM/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPBI	CAF
NACH	109.320	.09980	-1.22043	.1950	.24290	.12350	-1.21870	-.04640	.07220	-.04640	-1.17230
.996	107.600	.09950	-1.27630	.1960	.23300	.13040	-1.29340	-.02580	.02340	.02580	-1.28560
.996	105.590	1.14670	-1.32610	.27040	-.00440	.16740	-1.37170	.00640	.79760	-.00440	-1.37020
.996	103.350	1.35620	-1.41300	-.00000	-.34660	.23070	-1.44400	.01720	.76330	-.01720	-1.46130
.996	101.250	1.65670	-1.53690	-.79210	-.43000	.26230	-1.49900	.03000	.76870	-.03000	-1.53710
.996	100.470	1.93960	-1.70170	-.89120	-.52970	.30490	-1.51970	.04870	.76140	-.04870	-1.56440
.996	100.420	2.30330	-1.84330	-.84900	-.63190	.32750	-1.48230	.08210	.75030	-.08210	-1.52450
.996	100.370	2.80950	-1.96196	.13150	-.54700	.33170	-1.41790	.06410	.73990	-.06410	-1.46830
.996	100.320	3.22000	-2.07320	.37610	-.42040	.34660	-1.36940	.07890	.73300	-.07890	-1.42720
.996	101.270	3.59100	-2.21110	-.08770	-.57360	.42660	-1.34640	.08060	.72940	-.08060	-1.41420
.996	100.000	4.00000	-2.29380	-.47210	-.68310	.48780	-1.32710	.08700	.72400	-.08700	-1.41420
.996	100.470	1.93950	-1.70910	-.84010	-.45070	.28260	-1.50940	.04940	.76190	-.04940	-1.53690
GRADIENT		-.16523	.05706	-.00100	.04457	-.01696	.00319	-.00636	.00632	.00636	.00957

RUN NO. 00/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPBI	CAF
NACH	109.420	.92980	-.01970	.22110	.29450	.09750	-1.42380	.01250	.76300	-.01250	-1.43640
.902	107.470	1.14730	-.08360	.29950	.30650	.11830	-1.49320	.02970	.76000	-.02970	-1.52300
.902	105.430	1.42500	-1.12340	.17600	.21600	.15900	-1.47820	.07320	.75130	-.07320	-1.53140
.902	103.370	1.70160	-1.30110	.13420	.11560	.19720	-1.49510	.09670	.74830	-.09670	-1.58180
.902	101.250	2.20000	-1.31600	.95630	.44050	.18150	-1.60840	.10190	.72720	-.10190	-1.79030
.902	100.000	2.48000	-1.67040	.64080	.38340	.24790	-1.68390	.10930	.73740	-.10930	-1.79330
.902	100.000	2.89320	-1.92130	.63270	.36870	.29460	-1.66670	.11430	.73670	-.11430	-1.78110
.902	100.000	3.34410	-2.15720	.70900	.38090	.33500	-1.64900	.11900	.73310	-.11900	-1.76800
.902	100.000	3.96110	-2.36360	1.06540	.57060	.37910	-1.60330	.14830	.72760	-.14830	-1.75170
.902	100.000	4.51390	-2.61050	1.10700	.40390	.42190	-1.60010	.17480	.72470	-.17480	-1.77500
.902	100.000	4.91730	-2.84940	.73250	-.40390	.48850	-1.55260	.16230	.72748	-.16230	-1.71500
.902	100.000	2.49170	-1.68960	.61410	.38320	.23050	-1.69620	.11060	.73730	-.11060	-1.80690
GRADIENT		-.19649	.10162	-.04061	.00217	-.01843	.00761	-.00703	.00179	.00703	.01464

DATE 11 JUL 74

TABULATED SOURCE DATA, WSPC TWT 587

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WSPC 587 (744) TITAN III C SRM (MNETP)

(197049) ( 23 APR 74 )

## REFERENCE DATA

SREF = -6368 80. IN XMRP = 4.6330 IN.  
 LREF = -9000 10. IN. YMRP = -9000 10. IN.  
 SREF = -9000 10. IN. ZMRP = -9000 10. IN.  
 SCALE = .0874

## PARAMETRIC DATA

DELTA = .000 PHI = 270.000

RUN NO. 90/ 0 RM/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.200	169.290	1.12140	-1.28430	-2.29690	.12800	.19240	-1.94970	.18910	.79420	-1.10910	-2.13890
1.200	167.300	1.42770	-1.48730	-4.1000	-0.01200	.84310	-2.00640	.21200	.78330	-2.1200	-2.21840
1.200	163.220	1.80840	-1.73010	-4.3740	-0.07000	.29120	-2.03920	.22780	.77280	-2.2780	-2.26700
1.200	163.060	2.23830	-1.89450	-3.0540	.05740	.34090	-2.03010	.24280	.75860	-2.24280	-2.27300
1.200	160.970	2.67450	-2.15010	-3.9370	-0.07990	.40170	-2.08170	.24990	.75360	-2.24990	-2.33160
1.200	159.840	3.15600	-2.36850	-4.4170	-0.20150	.49240	-2.09000	.24290	.74640	-2.24290	-2.32300
1.200	156.710	3.68250	-2.51300	-4.9200	-0.27370	.50550	-2.06660	.25060	.73760	-2.25060	-2.33750
1.200	154.370	4.25800	-2.60910	-5.5100	-0.42430	.63190	-2.04210	.26360	.71830	-2.26360	-2.32500
1.200	152.430	4.88160	-2.56680	-6.8360	-0.56450	.63190	-2.02060	.28160	.70840	-2.28160	-2.30220
1.200	150.290	5.50420	-2.47460	-8.3590	-0.69930	.69480	-1.99600	.29460	.69760	-2.29460	-2.29060
1.200	148.230	6.16370	-2.24300	-9.6510	-0.74920	.76320	-1.96600	.21720	.74790	-2.21720	-2.26910
1.200	156.830	3.16200	-2.40900	-4.3910	-0.20030	.45350	-2.05190	.00409	.00436	.00409	.00366
1.200	GRADIENT	-2.2931	.05633	.02712	.04183	-.02682	.00157	-.00409			

RUN NO. 114/ 0 RM/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.958	169.300	.96000	-1.09690	-.09200	.11450	.15750	-1.93040	.04920	.79600	-0.04920	-1.97960
1.958	167.320	1.30630	-1.08600	-.12420	.04330	.19550	-1.95870	.06520	.75670	-0.06520	-2.02390
1.958	165.240	1.69970	-1.04880	-.19760	-.05630	.23960	-1.99180	.08330	.72960	-0.08330	-2.07310
1.958	163.110	2.13900	-1.03690	-.23370	-.16240	.26800	-2.02560	.10210	.71260	-0.10210	-2.12780
1.958	161.010	2.59550	-.97050	-.34150	-.35040	.31470	-2.05910	.11360	.69880	-0.11360	-2.17270
1.958	158.880	3.03780	-.86600	-.40620	-.45070	.35660	-2.07210	.12440	.68730	-0.12440	-2.19660
1.958	156.790	3.53070	-.81590	-.46150	-.47850	.37870	-2.07990	.12680	.67360	-0.12680	-2.20680
1.958	154.680	4.03740	-.48620	-.51410	-.50190	.43170	-2.09400	.12970	.66810	-0.12970	-2.22370
1.958	152.520	4.63190	-.29980	-.57350	-.47470	.47800	-2.11430	.13140	.65970	-0.13140	-2.24370
1.958	150.410	5.13370	-.06200	-.57780	-.31190	.51530	-2.09350	.11380	.65350	-0.11380	-2.20930
1.958	148.360	5.66260	.09810	-.57860	-.14320	.55770	-2.09060	.08270	.64930	-0.08270	-2.17340
1.958	156.910	3.03050	-.76380	-.39120	-.43050	.34720	-2.09830	.12150	.68340	-0.12150	-2.17990
1.958	GRADIENT	-2.2622	.05934	.02622	.02059	-.01694	.00808	-.00247	.00636	.00247	.01055



DATE 11 JUL 76

TABULATED SOURCE DATA, NSFC TUT 367

PAGE 05

NSFC 507(FA4) TITAN III C SRM (MUETP)

(23 APR 74)

## REFERENCE DATA

REF = .0360 IN XMRP = 4.4330 IN.  
 REF = .0000 IN. YMRP = .0000 IN.  
 REF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .008 PHI = 270.000

RUN NO. 51/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMN	CYMN	CYN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.480	169.530	.60720	-.34670	-.03330	.10700	-1.93440	.06340	.71440	-.06340	-1.99790
3.480	167.590	.93270	-.30990	-.02960	.12590	-1.90560	.06370	.69260	-.06370	-2.05240
3.480	165.540	1.23780	-.26260	-.03130	.14890	-2.03270	.06930	.67790	-.06930	-2.10200
3.480	163.490	1.50200	-.24330	-.03510	.17090	-2.07140	.07190	.67140	-.07190	-2.14290
3.480	161.400	1.90440	-.16760	-.07130	.20990	-2.12480	.06810	.66260	-.06810	-2.19290
3.480	159.300	2.29670	-.04340	-.11370	.23160	-2.17260	.06390	.65390	-.06390	-2.23610
3.480	157.320	2.67530	.03460	-.14590	.24510	-2.21330	.05020	.64590	-.05020	-2.26360
3.480	155.260	3.04320	.14470	-.15430	.26360	-2.22200	.03290	.64250	-.03290	-2.29300
3.480	153.210	3.47360	.24500	-.16170	.30360	-2.22480	.01270	.63630	-.01270	-2.33760
3.480	151.120	3.91730	.40790	-.19700	.34270	-2.20910	.00360	.63490	-.00360	-2.38300
3.480	149.140	4.37260	.57330	-.22400	.39000	-2.19100	-.00980	.63480	-.00980	-2.43120
3.480	159.360	2.25600	-.08300	-.11960	.20860	-2.16020	.06500	.65820	-.06500	-2.24350
GRADIENT		-.10022	-.04433	.01039	-.01335	.01371	.00392	.00346	-.00392	.00979

RUN NO. 50/ 0 RM/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMN	CYMN	CYN	CBL	CA	CAB	KCP/L	CPB1	CAF
4.959	169.630	.47950	-.21710	-.04760	.09740	-1.94450	.02020	.70860	-.02020	-1.96470
4.959	167.710	.70850	-.23470	-.06040	.09730	-2.01660	.02250	.69710	-.02250	-2.02910
4.959	165.670	.99210	-.22960	-.04570	.12900	-2.06280	.02350	.68080	-.02350	-2.08640
4.959	163.680	1.21740	-.20800	-.07220	.15900	-2.13350	.02550	.67310	-.02550	-2.15900
4.959	161.650	1.55820	-.12660	-.08420	.18210	-2.19890	.02530	.66160	-.02530	-2.22300
4.959	159.630	1.90020	-.07330	-.08320	.19040	-2.29090	.01970	.65640	-.01970	-2.31070
4.959	157.580	2.26700	.05380	-.11160	.24330	-2.34060	.00410	.64890	-.00410	-2.34980
4.959	155.570	2.66230	.16770	-.14260	.27000	-2.37730	-.00460	.64350	-.00460	-2.37260
4.959	153.570	3.02910	.35820	-.17330	.30220	-2.35610	-.01600	.63650	-.01600	-2.32010
4.959	151.520	3.45490	.51760	-.18920	.30740	-2.31300	-.02980	.63230	-.02980	-2.26320
4.959	149.570	3.96820	.66100	-.19100	.35970	-2.25980	-.04140	.63040	-.04140	-2.25930
4.959	159.630	1.92800	-.05900	-.08290	.19180	-2.22260	.01320	.65340	-.01320	-2.29580
GRADIENT		-.17208	-.04594	.00805	-.01339	.01996	.00322	.00366	-.00322	.01664

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TABULATED SOURCE DATA, WSPC TWT 907

DATE 15 JUL 74

(1807030) ( 23 APR 74 )

WSPC 907 (FAJ) TITAN III C 38M (HDET)

PARAMETRIC DATA

BETA = .000 PM1 = 270.000

REFERENCE DATA

SREF = .0300 20. IN XREF = 4.8330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 ZREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

RUN NO. 87/ 0 RM/L = 4.92 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CTNN	CBL	CA	CAB	XCP/L	CPB/L	CAF
.000	190.010	-.72400	1.00420	.41310	-.07000	-.09270	-.06620	-.09340	.84260	.05340	-.01270
.000	190.000	-.95000	.98410	.26390	-.00730	-.08710	-.05760	-.07240	.07240	.07240	-.70520
.000	188.090	-.40770	.80090	.16410	-.04410	-.07040	-.05000	-.00070	.90010	.00070	-.77010
.000	184.040	-.25170	.57240	.09490	.00430	-.06620	-.07510	-.08390	.93930	.08390	-.79110
.000	182.030	-.15410	.38400	.06520	.00560	-.05480	-.09170	-.08300	.96680	.08300	-.83160
.000	180.000	.00410	.11500	.03050	.10230	-.73110	-.93770	-.08240	-.86090	.08240	-.89530
.000	177.980	.10040	-.20850	-.00810	.14170	-.01510	-.90860	-.07860	.91160	.07860	-.91000
.000	175.960	.19820	-.48170	-.02610	.20030	.02680	-.1.02720	-.07490	.95900	.07490	-.95230
.000	173.930	.32330	-.70400	.00690	.25900	.03990	-.1.09340	-.06380	.92710	.06380	-.1.02960
.000	171.910	.46890	-.97640	.07270	.26080	.00000	-.1.12740	-.06100	.91500	.06100	-.1.06960
.000	169.980	.65220	-.1.18700	.09590	.30430	.09380	-.1.17730	-.05200	.88180	.05200	-.1.12520
.000	160.000	.00410	.11570	.03000	.12360	-.03890	-.04000	-.08430	-.8.83980	.08430	-.8.8360
.000	GRADIENT	-.06471	.11945	.01414	-.02094	-.00974	.01689	-.00036	-.00105	.00036	.01745

RUN NO. 86/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CTNN	CBL	CA	CAB	XCP/L	CPB/L	CAF
.000	196.000	-.77650	.73010	.48540	-.01360	-.09600	-.1.00990	-.00970	.77050	.00970	-.1.00020
.000	188.140	-.96560	.63710	.27560	-.08430	-.07710	-.99320	-.03890	.79400	.03890	-.99420
.000	186.120	-.39810	.55500	.16230	-.05630	-.06610	-.99100	-.06120	.82790	.06120	-.92370
.000	184.070	-.23840	.52210	.10270	-.02470	-.04330	-.99650	-.07180	.92860	.07180	-.92470
.000	182.060	-.08000	.40700	.06360	-.03990	-.01300	-.1.03650	-.07430	1.23120	.07430	-.96220
.000	180.000	.06310	.18630	.04230	-.01360	.00990	-.1.08120	-.07130	.27420	.07130	-.1.00990
.000	177.950	.20140	-.04080	-.00300	.04430	.03070	-.1.12610	-.06060	.68220	.06060	-.1.08340
.000	175.930	.29620	-.23240	-.02050	.13170	.04610	-.1.19840	-.04270	.75080	.04270	-.1.15370
.000	173.900	.44130	-.41720	-.00100	.12980	.07620	-.1.24960	-.03070	.77120	.03070	-.1.21890
.000	171.830	.68080	-.66260	.09520	.19050	.06930	-.1.31470	-.02160	.77330	.02160	-.1.29390
.000	169.830	.93390	-.81780	.18100	.28080	.08720	-.1.38220	-.00060	.76210	.00060	-.1.38430
.000	179.990	.08680	.17440	.03680	-.01110	-.00380	-.1.09130	-.07000	.39660	.07000	-.1.02130
.000	GRADIENT	-.07809	.07978	.01312	-.01580	-.00964	.01985	-.00125	.00541	.00125	.02110

DATE 11 JUL 74

## TABULATED SOURCE DATA, NSFC TWT 367

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NSFC 987(744) TITAN III C SRN (INSTRP)

(807058) ( 23 APR 74 )

## REFERENCE DATA

REF = .6360 3d. IN XMRP = 4.4330 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 REF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 270.003

RUN NO. 65/ 1 RN/L = 6.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.198	190.210	-96800	1.22950	.50650	.14380	-.10550	-1.53970	.10040	.81220	-.10040	-1.03910
1.198	188.250	-75120	1.01960	.34950	-.04320	-.08580	-1.52130	.08510	.62350	-.08510	-1.00640
1.198	186.200	-54290	.82060	.21140	-.13330	-.07330	-1.53980	.08550	.44200	-.08550	-1.02340
1.198	184.140	-33130	.51470	.11990	-.12760	-.04820	-1.55860	.09060	.03690	-.09060	-1.04930
1.198	182.070	-13760	.29220	.04970	-.07330	-.02350	-1.58000	.08680	.92010	-.08680	-1.06880
1.198	179.990	.04630	.13920	-.01720	.00330	-.00810	-1.61380	.09320	.38370	-.09320	-1.07010
1.198	177.930	.23410	-.13800	-.05600	.02820	.03870	-1.67050	.10370	.72610	-.10370	-1.07420
1.198	175.870	.39310	-.45060	-.08840	.11950	.06290	-1.73660	.11920	.79380	-.11920	-1.05190
1.198	173.800	.59340	-.76670	-.12790	.15470	.10100	-1.78900	.12660	.81300	-.12660	-1.01870
1.198	171.730	.84510	-.97370	-.21630	.14200	.14690	-1.86650	.13470	.79730	-.13470	-2.02130
1.198	169.720	1.14540	-1.18390	-.28450	.13540	.18340	-1.94250	.19160	.78230	-.19160	-2.13410
1.198	179.990	.08430	.13780	-.02660	-.00630	.00680	-1.61070	.09290	.44450	-.09290	-1.70370
GRADIENT		-.09815	.11998	.03417	-.00980	-.01407	.02029	-.00406	.00272	.00406	.02437

RUN NO. 115/ 0 RN/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.937	190.210	-98120	.68050	.42230	.23110	-.09010	-1.63710	.05360	.73930	-.05360	-1.69080
1.937	188.250	-70450	.86100	.28300	.02350	-.07220	-1.61150	.03840	.77020	-.03840	-1.64990
1.937	186.190	-48940	.55510	.19880	-.01840	-.05800	-1.61450	.02780	.79500	-.02780	-1.64230
1.937	184.120	-32040	.43950	.12200	-.00930	-.04380	-1.64000	.01810	.82510	-.01810	-1.65810
1.937	182.050	-14680	.24980	.06020	.00240	-.02030	-1.67680	.00970	.86680	-.00970	-1.68660
1.937	179.990	.01150	.00890	.02830	.05910	.00580	-1.70240	.00970	.53380	-.00580	-1.71220
1.937	177.930	.17040	-.23170	.00190	.07080	.01770	-1.73490	.00920	.82360	-.00920	-1.74220
1.937	175.870	.29780	-.52840	-.00720	.11110	.05830	-1.79180	.00790	.87610	-.00790	-1.76980
1.937	173.800	.47370	-.82360	-.02480	.15110	.09300	-1.83670	.01690	.87150	-.01690	-1.83370
1.937	171.720	.70760	-1.05280	-.05410	.12300	.13620	-1.90030	.02800	.83980	-.02800	-1.92840
1.937	169.730	.98970	-1.19560	-.07630	.13000	.18050	-1.94390	.03980	.80440	-.03980	-1.98370
1.937	179.990	.02890	-.01960	.02910	.03460	.00910	-1.68610	.01290	.73750	-.00910	-1.67910
GRADIENT		-.08814	.10078	.02122	-.00325	-.01274	.01647	.00072	-.00394	-.00072	.01375

DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 507

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NSPC 507 (FAJ) TITAN III C SRM (MNETP)

(R07090) ( 23 APR 74 )

## REFERENCE DATA

3027 = .6308 IN. INTRP = 4.6330 IN.  
 3027 = .9000 IN. INTRP = .0000 IN.  
 3027 = .9000 IN. INTRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 48/ 0 RM/L = 0.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CJB	KCP/L	CPB1	CAF
3.400	190.100	-.70950	.24590	.06440	-.04440	-1.60730	.05920	.05190	-.05920	-.05920	-1.74000
3.400	188.250	-.50970	.33330	.03160	-.05480	-1.60510	.05940	.72590	-.05340	-.05340	-1.74000
3.400	186.220	-.40930	.33110	.11460	-.01960	-1.60280	.04850	.75390	-.04850	-.04850	-1.73140
3.400	184.200	-.31080	.24330	.07800	-.00830	-1.60070	.04090	.76600	-.04090	-.04090	-1.72970
3.400	182.200	-.17310	.21540	.04720	-.05750	-1.71900	.03890	.80890	-.03890	-.03890	-1.75870
3.400	180.150	-.07260	.10040	.02990	-.05350	-1.73940	.03790	.82690	-.03790	-.03790	-1.77730
3.400	178.100	.03990	-.06360	.00710	-.04080	-1.76570	.03330	.85340	-.03330	-.03330	-1.80410
3.400	176.100	.16700	-.16200	.00700	-.02680	-1.80410	.04120	.77430	-.04120	-.04120	-1.84530
3.400	174.090	.26670	-.27500	.00650	-.05050	-1.84360	.04850	.70100	-.04850	-.04850	-1.89010
3.400	172.030	.47230	-.36290	.00770	-.06180	-1.89310	.05340	.74070	-.05340	-.05340	-1.93660
3.400	170.070	.69790	-.34450	.03240	-.08250	-1.92640	.05880	.71400	-.05880	-.05880	-1.98820
3.400	168.150	-.07240	.10050	.03020	-.06100	-1.74410	.03730	.82710	-.03730	-.03730	-1.78130
GRADIENT		-.06619	.03933	.01116	-.00163	.01237	.00004	-.00154	-.00004	-.00004	.01233

RUN NO. 49/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	K' L	CPB1	CAF
4.959	190.090	-.61190	.36790	.15980	-.02770	-.03310	-1.63320	.01900	.72760	-.01900	-1.65220
4.959	188.100	-.50160	.36110	.13390	-.04570	-.01190	-1.62490	.01770	.74290	-.01770	-1.64260
4.959	186.100	-.39160	.30560	.07180	-.10460	-.00730	-1.62770	.01690	.77600	-.01690	-1.64470
4.959	184.170	-.33410	.29190	.07280	-.07470	-.02620	-1.65210	.01590	.76210	-.01590	-1.65810
4.959	182.160	-.22670	.25280	.00210	-.09760	-.00570	-1.67810	.01470	.79260	-.01470	-1.69290
4.959	180.150	-.10850	.16270	.04440	-.01560	-.03330	-1.70550	.01470	.84110	-.01470	-1.72020
4.959	178.140	-.00100	-.00080	-.02390	-.02190	-.00200	-1.73460	.01520	.54150	-.01520	-1.74980
4.959	176.130	.06620	-.07900	-.00840	.00000	-.01320	-1.77680	.01490	.76760	-.01490	-1.79180
4.959	174.140	.17030	-.12760	.00810	.01820	-.04320	-1.79130	.01470	.74630	-.01470	-1.80600
4.959	172.110	.31150	-.20470	.02170	.05800	-.04860	-1.84300	.01570	.73630	-.01570	-1.85800
4.959	170.170	.51060	-.16790	.02100	.04070	-.07470	-1.88060	.01650	.69310	-.01650	-1.89710
4.959	168.150	-.17060	.16870	.01110	-.09050	-.01400	-1.69470	.01490	.79140	-.01490	-1.70970
GRADIENT		-.03270	.03407	.00642	-.00649	-.00437	.01321	.00013	.00240	-.00013	.01308

DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 567

(R97051) ( 23 APR 74 )

NSPC 567 (FAA) TITAN III C SRM (HRETP)

PARAMETRIC DATA

REFERENCE DATA

REF = .0300 IN. IMP = 4.0330 IN.  
 LREF = .0000 IN. IMP = .0000 IN.  
 RREF = .0000 IN. IMP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 247.308

RUN NO. 156/ 0 RM/L = 0.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.199	-10.140	-1.03030	-1.18230	.08760	.7850	.02030	1.16430	.23020	.30830	-.23020	.95818
1.199	-8.210	-.85990	-.83190	.06040	.67340	.01080	1.17370	.21960	.32830	-.21960	.95410
1.199	-6.180	-.66030	-.48710	.01490	.04930	.01630	1.16900	.20730	.36200	-.20730	.96180
1.199	-4.120	-.50250	-.21440	-.04390	.01060	.01290	1.15710	.18880	.59750	-.18880	.96830
1.199	-2.070	-.31670	.04740	-.08160	.04390	.02330	1.15280	.17530	.87040	-.17530	.97720
1.199	-.030	-.19220	.29560	-.10170	.04290	.02880	1.14790	.17600	.89730	-.17600	.97190
1.199	2.030	.02320	.62630	-.12820	.03130	.05370	1.16080	.19900	-.2.75710	-.18900	.97190
1.199	.070	.15110	.95970	-.15220	-.05900	.08760	1.19010	.21210	-.14830	-.21210	.96480
1.199	6.100	.29590	1.36590	-.15750	-.09950	.08760	1.21250	.22760	.14870	-.23610	1.01580
1.199	8.180	.48170	1.83400	-.17680	-.11780	.12940	1.25190	.23610	.14870	-.23610	1.01640
1.199	10.140	.64640	2.30660	-.19740	-.19960	.17350	1.26970	.25320	.90270	-.16870	.97330
1.199	-.010	-.14220	.28220	-.10170	.02690	.03350	1.14410	.16870	.90270	-.16870	.97330
GRADIENT		.00043	.14254	-.01286	-.00505	.00685	.00361	.00293	-.24069	-.00293	.00087

RUN NO. 21/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	-10.250	-.99770	-1.61250	.19050	-.16040	-.01850	.75490	.06980	.44690	-.06980	.88300
3.420	-8.280	-.74050	-1.22770	.15890	-.10920	-.02090	.74600	.06480	.44160	-.06480	.88140
3.480	-6.240	-.51910	-.97020	.10790	-.06560	-.00660	.72840	.06000	.43930	-.06000	.88440
3.480	-4.200	-.35670	-.56360	.06390	-.01630	.00370	.71500	.05290	.43210	-.05290	.88210
3.480	-2.180	-.19410	-.24090	.01870	-.01790	.01270	.70690	.04630	.43360	-.04630	.88950
3.480	-.130	.00290	.04240	-.02750	-.01000	.00510	.70430	.04400	-.1.18180	-.04400	.88020
3.480	1.890	.19630	.38140	-.04940	-.02180	.02490	.73640	.04600	.34700	-.04600	.89030
3.480	3.930	.32740	.72990	-.07730	-.02390	.07230	.75780	.05240	.36940	-.05240	.70530
3.480	5.150	.53560	1.09310	-.09260	-.03160	.07340	.79810	.06060	.39220	-.06060	.73550
3.480	6.310	.76590	1.42190	-.11450	-.06470	.06610	.72410	.06720	.41650	-.06720	.75690
3.480	9.980	1.04730	1.78670	-.12560	-.09390	.1120	.4730	.06960	.43560	-.06960	.77780
3.480	-.130	.00320	.04320	-.02800	-.02470	.01425	.7240	.04410	-.1.01270	-.04410	.88020
GRADIENT		.00071	.15982	-.01724	-.00271	.00449	.00361	-.00016	-.01172	.00016	.00381

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TABULATED SOURCE DATA, NUSC TWT 997

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NUSC 307 (PAA) TITAN 111 C SON (HNETP)

(R07092) ( 23 APR 74 )

## REFERENCE DATA

## PARAMETRIC DATA

REF = .6308 2d. IN ZMRP = 4.6330 IN.  
 LREF = .9008 IN. YMRP = .0000 IN.  
 REF = .9008 IN. ZMRP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 247.900

RUN NO. 199/ 0 RM/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
1.197	10.600	.64700	2.27340	-.18050	-.21390	.16340	1.26680	.25090	.20730	-.25090	1.01760
1.197	12.650	.06210	2.73740	-.21200	-.24010	.20300	1.27940	.26300	.24960	-.26300	1.01630
1.197	14.700	1.13440	3.22990	-.25800	-.25760	.25800	1.26790	.26760	.29110	-.26760	1.00030
1.197	16.810	1.43950	3.80510	-.33840	-.22170	.31940	1.25550	.26120	.32150	-.26120	.97420
1.197	18.890	1.84390	4.46030	-.46050	-.19570	.37180	1.22900	.29000	.34530	-.29000	.93690
1.197	21.020	2.28990	5.17870	-.59430	-.05250	.43090	1.21810	.30310	.36260	-.30310	.91500
1.197	23.150	2.76770	5.98340	-.73540	.01170	.47950	1.19810	.31760	.37790	-.31760	.89030
1.197	25.310	3.36360	6.96280	-.85970	.11420	.53590	1.16760	.31650	.36870	-.31650	.84900
1.197	27.480	3.99310	7.87950	-.99130	.16760	.59610	1.13760	.32350	.40190	-.32350	.81400
1.197	29.620	4.68190	8.85920	-1.02210	.33390	.64830	1.11450	.34190	.41200	-.34190	.77250
1.197	31.850	5.35030	9.88740	-1.12360	.39960	.71390	1.10290	.35660	.42230	-.35660	.74610
1.197	21.030	2.30450	5.22160	-.60340	-.06950	.41620	1.19810	.29270	.36470	-.29270	.90540
GRADIENT		.22455	.35919	-.04796	.03216	.02620	-.00899	.00480	.00954	-.00480	-.01379

RUN NO. 20/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	10.500	1.03430	1.80400	-.11570	-.05400	.10370	.86970	.06940	.43070	-.06940	.79630
3.400	12.470	1.32960	2.17810	-.13690	-.05630	.12810	.86930	.07050	.44410	-.07050	.81900
3.400	14.350	1.63260	2.54400	-.16040	-.04550	.15400	.91230	.06880	.45660	-.06880	.84340
3.400	16.390	1.98800	2.92000	-.21900	-.04940	.17760	.94250	.07010	.46560	-.07010	.87240
3.400	18.640	2.36370	3.28310	-.28160	-.04340	.20840	.96890	.06970	.47370	-.06970	.89910
3.400	20.890	2.72760	3.63810	-.34450	-.04390	.22970	.99450	.06540	.48270	-.06540	.92900
3.400	22.780	3.14110	4.01360	-.41180	.00590	.26120	1.03820	.06060	.48980	-.06060	.97560
3.400	24.620	3.53000	4.37500	-.48700	.00230	.31780	1.07160	.05570	.49470	-.05570	1.01590
3.400	26.880	3.97090	4.79790	-.54910	.03430	.38170	1.11360	.04720	.49800	-.04720	1.06630
3.400	28.950	4.37040	5.20560	-.61190	.03970	.41350	1.15090	.04160	.50070	-.04160	1.10950
3.400	30.930	4.81240	5.63390	-.69160	.02630	.44890	1.17940	.02600	.50330	-.02600	1.15340
3.400	20.690	2.71530	3.61350	-.35650	-.03310	.25460	.99980	.06580	.48300	-.06580	.93400
GRADIENT		.16957	.13460	-.02884	.00326	.01729	.01371	-.00193	.00349	-.00193	-.01763



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TABULATED SOURCE DATA, NSFC TWT 507

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NSFC 507 (P44) TITAN III C SRN (HNETP)

(1897034) (23 APR 74)

## REFERENCE DATA

REF = .0360 50. IN XIMP = 4.6330 IN.  
LREF = .0000 IN. YIMP = .0000 IN.  
REF = .0000 IN. ZIMP = .0000 IN.  
SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 247.500

RUN NO. 192/ 0 RM/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.194	50.849	9.99450	14.47400	-1.97870	.37600	1.07000	.97140	.00000	.46820	.00000	.97140
1.194	52.820	10.37010	14.59200	-2.03250	.42100	1.10430	.92850	.00000	.47340	.00000	.92850
1.194	54.820	10.77400	14.56530	-2.06900	.54540	1.14700	.88500	.00000	.48040	.00000	.88500
1.194	56.840	11.20420	15.02210	-2.07430	.66120	1.18950	.81410	.00000	.49180	.00000	.81410
1.194	58.840	11.58300	15.19290	-2.15150	.78400	1.21630	.77650	.00000	.49550	.00000	.77650
1.194	60.840	11.90010	14.91540	-2.23480	.87190	1.23520	.72630	.00000	.49200	.00000	.72630
1.194	62.840	12.23770	14.96940	-2.32490	.95090	1.28800	.66660	.00000	.49690	.00000	.66660
1.194	64.830	12.51590	14.76420	-2.39050	.98990	1.31220	.63240	.00000	.50220	.00000	.63240
1.194	66.800	12.75840	14.61030	-2.44270	.95640	1.34260	.57760	.00000	.50650	.00000	.57760
1.194	68.800	12.91210	14.33730	-2.44500	1.00170	1.36560	.52470	.00000	.51070	.00000	.52470
1.194	70.670	12.99000	13.91270	-2.44720	1.02290	1.38940	.49610	.00000	.51600	.00000	.49610
1.194	60.840	11.08330	14.80750	-2.24310	.87350	1.25550	.73130	.00000	.49350	.00000	.73130
GRADIENT		.13766	-.01973	-.02716	.03406	.01614	-.02456	.00000	.00237	.00000	-.02456

RUN NO. 303/ 0 RM/L = 6.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.488	50.500	8.64130	9.82680	-1.24290	.64520	.78610	1.20090	.00000	.52220	.00000	1.20090
3.488	52.410	9.01380	9.18230	-1.30390	.69940	.85170	1.17220	.00000	.52250	.00000	1.17220
3.488	54.440	9.42760	9.54230	-1.36920	.72760	.88940	1.12040	.00000	.52340	.00000	1.12040
3.488	56.450	9.82950	9.90650	-1.43260	.77830	.94490	1.08500	.00000	.52390	.00000	1.08500
3.488	58.460	10.24590	10.20020	-1.48700	.81410	.94950	1.03920	.00000	.52550	.00000	1.03920
3.488	60.470	10.59200	10.32930	-1.53230	.82400	1.02350	1.00170	.00000	.52810	.00000	1.00170
3.488	62.470	10.94060	10.49820	-1.64190	.87320	1.06750	.96260	.00000	.53000	.00000	.96260
3.488	64.480	11.25490	10.68200	-1.67770	.89330	1.11610	.92100	.00000	.53160	.00000	.92100
3.488	66.480	11.60330	10.82140	-1.72440	.92830	1.14950	.87550	.00000	.53440	.00000	.87550
3.488	68.500	11.97140	10.90550	-1.78290	.95730	1.17930	.82560	.00000	.53520	.00000	.82560
3.488	70.380	12.09810	10.94680	-1.84290	.94300	1.19880	.78100	.00000	.53700	.00000	.78100
3.488	60.470	10.58330	10.37690	-1.58500	.80820	1.04470	1.00370	.00000	.52740	.00000	1.00370
GRADIENT		.17636	.10524	-.03019	.01639	.02099	-.02109	.00000	.00079	.00000	-.02109

(R07055) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 30. IN ZIMP = 4.6338 IN.  
 LREF = .0000 IN. YIMP = .0000 IN.  
 REF = .0000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 247.906

RUN NO. 193/ 0 RM/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYN	CTWH	CEL	CA	CAB	KCP/L	CPB1	CAF
1.199	.030	12.90020	13.66460	-2.44460	1.02460	1.39200	.59240	.00000	.51740	.00000	.53240
1.199	72.710	13.06920	13.23610	-2.46450	1.02670	1.40150	.53060	.00000	.52310	.00000	.53060
1.199	74.590	13.14960	12.66970	-2.46970	1.01460	1.42160	.50440	.00000	.52950	.00000	.50440
1.199	76.630	13.28110	12.27680	-2.46370	.96380	1.43340	.47460	.00000	.53450	.00000	.47460
1.199	78.620	13.41010	12.11470	-2.45770	.96670	1.43980	.41790	.00000	.53710	.00000	.41790
1.199	80.630	13.57090	11.94690	-2.40370	.92790	1.43970	.33400	.00000	.54000	.00000	.33400
1.199	82.620	13.82370	11.83820	-2.41200	.82390	1.43410	.30050	.00000	.54310	.00000	.30050
1.199	84.600	14.01760	11.65940	-2.46880	.64870	1.42970	.26470	.00000	.54620	.00000	.26470
1.199	86.560	14.09430	11.35400	-2.55180	.87290	1.42620	.23070	.00000	.54950	.00000	.23070
1.199	88.570	14.06000	11.03560	-2.63210	.88970	1.51420	.19960	.00000	.55230	.00000	.19960
1.199	90.450	14.09770	10.70150	-2.67720	.69300	1.53010	.18510	.00000	.55540	.00000	.18510
1.199	90.630	13.56100	11.92500	-2.41040	.82570	1.43370	.35780	.00000	.54020	.00000	.35780
GRADIENT		.06904	-.13406	-.00958	-.00891	.00691	-.02062	.00000	.00182	.00000	-.02062

RUN NO. 302/ 0 RM/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYN	CTWH	CEL	CA	CAB	KCP/L	CPB1	CAF
3.400	70.550	12.16950	10.96970	-1.84330	.96510	1.14240	.82400	.00000	.53740	.00000	.82400
3.400	72.430	12.40740	11.00780	-1.89580	.97320	1.16970	.76630	.00000	.53920	.00000	.76630
3.400	74.450	12.68350	11.03140	-1.92970	1.01010	1.20540	.71230	.00000	.54140	.00000	.71230
3.400	76.450	12.91590	10.92600	-1.96290	.99240	1.22480	.65470	.00000	.54440	.00000	.65470
3.400	78.460	13.14830	10.81920	-1.99460	1.03080	1.26020	.59340	.00000	.54730	.00000	.59340
3.400	80.450	13.28970	10.64130	-2.02580	1.06230	1.27950	.53600	.00000	.55010	.00000	.53600
3.400	82.430	13.43570	10.58390	-2.07900	1.09410	1.29110	.46050	.00000	.55180	.00000	.46050
3.400	84.440	13.57770	10.45070	-2.10420	1.16600	1.30610	.38660	.00000	.55410	.00000	.38660
3.400	86.410	13.59770	10.11770	-2.10970	1.19660	1.31430	.32340	.00000	.55730	.00000	.32340
3.400	88.410	13.69020	9.86910	-2.13040	1.18300	1.31700	.25930	.00000	.56000	.00000	.25930
3.400	90.290	13.63650	9.70360	-2.14690	1.17950	1.31190	.19330	.00000	.56140	.00000	.19330
3.400	90.430	13.27920	10.63690	-2.03330	1.09070	1.29720	.33590	.00000	.55010	.00000	.33590
GRADIENT		.07645	-.06766	-.01340	.01320	.00896	-.03207	.00000	.00126	.00000	-.03207



DATE 11 JUL 74  
 TABULATED SOURCE DATA, NSFC TWT 507  
 NSFC 907 (PAA) TITAN III C 80N (MDETP)

PARAMETRIC DATA  
 BETA = .000 PHI = 247.500

REFERENCE DATA

REF = .0368 90. IN YMRP = 4.0338 IN.  
 REF = .0000 IN. YMRP = .0000 IN.  
 REF = .0000 IN. YMRP = .0000 IN.  
 SCALE = .0074

RUN NO. 222/ 0 RM/L = 0.64 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CNN	CLNN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.201	109.330	12.45470	5.36270	-2.04200	.91040	1.41770	-.57660	.00000	.59700	.00000	-.37680
1.201	107.490	12.70130	5.89600	-2.14470	1.01770	1.43730	-.49770	.00000	.59270	.00000	-.49770
1.201	105.460	12.97420	6.37370	-2.17270	1.10760	1.46390	-.34040	.00000	.58930	.00000	-.34040
1.201	103.480	13.29030	6.84490	-2.21640	1.19680	1.48130	-.22690	.00000	.58500	.00000	-.22690
1.201	101.500	13.53530	7.29070	-2.23930	1.17350	1.49740	-.12390	.00000	.58050	.00000	-.12390
1.201	99.500	13.71690	7.61220	-2.25220	1.20380	1.49600	-.02160	.00000	.57650	.00000	-.02160
1.201	97.530	13.86970	7.81470	-2.25990	1.21120	1.49270	.07640	.00000	.57290	.00000	.07640
1.201	95.590	14.01400	7.98320	-2.26560	1.24390	1.50900	.16670	.00000	.57010	.00000	.16670
1.201	93.580	14.08320	8.33760	-2.26410	1.25360	1.51310	.24930	.00000	.56760	.00000	.24930
1.201	91.590	14.17460	8.64500	-2.27020	1.25320	1.50830	.31320	.00000	.56440	.00000	.31320
1.201	89.690	14.12950	8.90680	-2.22330	1.22360	1.51150	.35790	.00000	.56270	.00000	.35790
1.201	87.520	13.70850	9.16090	-2.25720	1.19520	1.49220	-.02580	.00000	.57610	.00000	-.02580
1.201	GRADIENT	-.00919	-.23.75	.00732	-.01459	-.00437	-.04839	.00000	.00176	.00000	-.04839

RUN NO. 281/ 0 RM/L = 0.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	109.540	11.67670	6.33490	-1.61270	.83390	1.09460	-.55260	.00000	.58400	.00000	-.55260
3.400	107.690	12.14090	6.86620	-1.64400	.90920	1.10440	-.47590	.00000	.58200	.00000	-.47590
3.400	105.630	12.44200	7.00300	-1.70200	.96590	1.13600	-.35810	.00000	.58020	.00000	-.35810
3.400	103.630	12.72930	7.36000	-1.73300	1.01540	1.16100	-.24960	.00000	.57830	.00000	-.24960
3.400	101.640	12.89070	7.88090	-1.76530	1.06970	1.19080	-.16130	.00000	.57610	.00000	-.16130
3.400	99.620	13.04800	8.03370	-1.80390	1.13590	1.21480	-.06660	.00000	.57340	.00000	-.06660
3.400	97.690	13.22880	8.42360	-1.82980	1.17920	1.22610	.00400	.00000	.57090	.00000	.00400
3.400	95.680	13.34550	8.73490	-1.82190	1.19820	1.23730	.09890	.00000	.56860	.00000	.09890
3.400	93.670	13.46070	9.04380	-1.82690	1.21750	1.23500	.17310	.00000	.56630	.00000	.17310
3.400	91.680	13.55850	9.37360	-1.82360	1.24690	1.23670	.25590	.00000	.56400	.00000	.25590
3.400	89.780	13.61100	9.59320	-1.80350	1.26690	1.24480	.33180	.00000	.56230	.00000	.33180
3.400	87.520	13.01340	9.03190	-1.80480	1.14280	1.20360	-.07840	.00000	.57320	.00000	-.07840
3.400	GRADIENT	-.00896	-.16842	.00988	-.02161	-.00911	-.04486	.00000	.00113	.00000	-.04486



NSFC 507 (PA4) TITAN III C SRM (INSTEP)

(IN7057) ( 23 APR 74 )

## REFERENCE DATA

1.007 = .6369 94. IN XIMP = 4.0338 IN.  
 1.007 = .0000 IN. YIMP = .0000 IN.  
 1.007 = .0000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 247.500

RUN NO. 223/ 0 RM/L = 0.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWM	CLWM	CTM	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.202	129.260	9.32190	.73650	-1.71350	.31310	1.06600	-1.55020	.00000	.64150	.00000	-1.55020
1.202	127.340	9.71680	1.03610	-1.75580	.43780	1.12400	-1.47410	.00000	.63800	.00000	-1.47410
1.202	125.360	10.11990	1.44920	-1.79330	.57440	1.16900	-1.39290	.00000	.63340	.00000	-1.39290
1.202	123.390	10.49900	1.79190	-1.80610	.64600	1.20600	-1.28940	.00000	.62980	.00000	-1.28940
1.202	121.340	10.76970	2.23260	-1.86830	.67770	1.24730	-1.18680	.00000	.62520	.00000	-1.18680
1.202	119.350	11.06230	2.73890	-1.92760	.69810	1.27780	-1.08380	.00000	.62020	.00000	-1.08380
1.202	117.360	11.42100	3.27090	-1.99900	.72690	1.32520	-.97320	.00000	.61520	.00000	-.97320
1.202	115.370	11.71230	3.80920	-2.04440	.77700	1.34960	-.89550	.00000	.61030	.00000	-.89550
1.202	113.380	11.99970	4.28150	-2.03250	.83660	1.37340	-.74650	.00000	.60630	.00000	-.74650
1.202	111.390	12.28480	4.76330	-2.03950	.92090	1.39630	-.61970	.00000	.60240	.00000	-.61970
1.202	109.310	12.54270	5.37050	-2.07190	1.06160	1.41490	-.51240	.00000	.59730	.00000	-.51240
1.202	119.390	11.05530	2.73980	-1.92950	.69430	1.27340	-1.08330	.00000	.62018	.00000	-1.08330
GRADIENT		-.16103	-.23646	.02097	-.03098	-.01701	-.03318	.00000	.00226	.00000	-.03318

RUN NO. 230/ 0 RM/L = 0.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWM	CLWM	CTM	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	129.378	8.18530	3.27600	-1.04270	.39000	.76820	-1.55990	.00000	.60080	.00000	-1.55990
3.400	127.660	8.60010	3.48020	-1.11150	.41410	.81110	-1.44090	.00000	.60030	.00000	-1.44090
3.400	125.630	9.03330	3.71950	-1.19230	.46600	.86630	-1.31390	.00000	.59940	.00000	-1.31390
3.400	123.620	9.45230	4.02460	-1.25570	.53860	.91590	-1.19440	.00000	.59760	.00000	-1.19440
3.400	121.610	9.85210	4.39050	-1.31220	.59780	.94030	-1.09810	.00000	.59590	.00000	-1.09810
3.400	119.610	10.26180	4.89110	-1.37520	.63340	.96700	-.99710	.00000	.59360	.00000	-.99710
3.400	117.610	10.66360	5.03770	-1.43120	.69850	.99080	-.90040	.00000	.59170	.00000	-.90040
3.400	115.600	11.06110	5.36540	-1.48800	.70490	1.02730	-.78650	.00000	.58970	.00000	-.78650
3.400	113.600	11.31460	5.69670	-1.53150	.74440	1.05350	-.68360	.00000	.58790	.00000	-.68360
3.400	111.580	11.84200	5.99210	-1.56820	.77970	1.06480	-.59650	.00000	.58640	.00000	-.59650
3.400	109.700	11.91760	7.31320	-1.61250	.84560	1.06980	-.51150	.00000	.58440	.00000	-.51150
3.400	119.610	10.23720	4.69190	-1.37500	.63210	.93390	-1.00230	.00000	.59350	.00000	-1.00230
GRADIENT		-.18892	-.15480	.02811	-.02349	-.01528	-.03244	.00000	.00087	.00000	-.03244



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TABULATED SOURCE DATA, NSFC TWT 507

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NSFC 507 (FA4) TITAN III C 8RM (MDETP)

(897059) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN XIMP = 4.0330 IN.  
LREF = .0000 IN. YIMP = .0000 IN.  
BREF = .0000 IN. ZIMP = .0000 IN.  
SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 247.500

RUN NO. 53/ 0 RM/L = 6.69 GRADIENT INTERVAL = -5.06/ 5.00

MACH	ALPHA	CNN	CLNN	CTN	CTNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	169.390	.93500	-.89910	-.33970	.22960	.15780	-1.92500	.14210	.77320	-.14210	-2.06000
1.197	167.420	1.17410	-1.10990	-.43650	.19320	.20260	-1.96670	.16060	.77110	-.16060	-2.12950
1.197	165.340	1.47480	-1.31510	-.51170	.06390	.25930	-2.01450	.17310	.76430	-.17310	-2.18770
1.197	163.240	1.81740	-1.46920	-.50060	.00110	.31240	-2.04280	.18290	.75390	-.18290	-2.22370
1.197	161.160	2.22840	-1.62390	-.43480	.00460	.35350	-2.07050	.19630	.74370	-.19630	-2.26690
1.197	159.030	2.67260	-1.71230	-.43040	-.06110	.41340	-2.09050	.21630	.73260	-.21630	-2.30690
1.197	156.910	3.17530	-1.75430	-.63770	-.49290	.46960	-2.10810	.23970	.72140	-.23970	-2.34790
1.197	154.760	3.77480	-1.68840	-.76520	-.80000	.52690	-2.11730	.25920	.70810	-.25920	-2.37560
1.197	152.670	4.37370	-1.60560	-.83440	-.82570	.57440	-2.05360	.27960	.70040	-.27960	-2.37350
1.197	150.530	4.90740	-1.60310	-.80540	-.64380	.63510	-2.06470	.29130	.69290	-.29130	-2.35610
1.197	148.510	5.51160	-1.31440	-.99830	-.53530	.68330	-2.04770	.32060	.68170	-.32060	-2.37630
1.197	159.020	2.89200	-1.75640	-.45360	-.03740	.42490	-2.09430	.19790	.73410	-.19790	-2.28220
GRADIENT		-.22220	-.02470	-.02809	.05172	-.02530	.00611	-.00652	.00466	.00852	.01463

RUN NO. 53/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CTN	CTNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	169.390	.64610	-.30170	-.02730	.01480	.06960	-1.93530	.09650	.71040	-.09650	-1.99190
3.400	167.810	.86690	-.24910	-.06440	-.03390	.08340	-1.98210	.06020	.68700	-.06020	-2.04240
3.400	165.560	1.15500	-.23240	-.05250	.03410	.11220	-2.02910	.06470	.67700	-.06470	-2.09390
3.400	163.510	1.44740	-.23290	-.05800	.05060	.13310	-2.07880	.06950	.67180	-.06950	-2.14730
3.400	161.480	1.79070	-.20290	-.08770	-.00630	.15410	-2.13250	.06740	.66610	-.06740	-2.19980
3.400	159.420	2.05250	-.10020	-.12840	-.16990	.17710	-2.17680	.06010	.65800	-.06010	-2.23700
3.400	157.360	2.39340	-.00090	-.17250	-.21590	.19710	-2.19230	.04560	.65150	-.04560	-2.23800
3.400	155.300	2.77170	.11100	-.21720	-.23470	.21080	-2.19710	.03010	.64640	-.03010	-2.22720
3.400	153.240	3.17300	.23690	-.27700	-.19080	.25980	-2.18760	.01670	.64200	-.01670	-2.20440
3.400	151.180	3.59810	.32680	-.32560	-.11360	.29780	-2.17800	.00600	.63640	-.00600	-2.18400
3.400	149.200	4.01350	.65570	-.38020	-.05990	.34530	-2.16390	-.00780	.63140	.00780	-2.15600
3.400	159.420	2.04070	-.09020	-.12930	-.14320	.16350	-2.18320	.05950	.65760	-.05950	-2.24280
GRADIENT		-.16444	-.04310	.01729	.00955	-.01277	.01196	.00346	.00341	-.00346	.00850

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TABULATED SOURCE DATA, NSPC TWT 507

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NSPC 507 (744) TWTAN III C 30M (MSETP)

(R07000) ( 23 APR 74 )

## REFERENCE DATA

ORCP = .0300 IN ZMRP = 4.0330 IN.  
 LRC7 = .0000 IN. YMRP = .0000 IN.  
 BRC7 = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 247.300

RUN NO. 04/ 0 RM/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CNN	CLNN	CYN	CTNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.200	190.280	-.79010	.07070	.13220	.20560	-.05050	-1.51630	.13690	.79220	-.13690	-1.63330
1.200	188.330	-.57130	.01490	.25050	.03220	-.03160	-1.32150	.12290	.83200	-.12290	-1.64460
1.200	186.290	-.41280	.72350	.18960	-.11410	-.03240	-1.52700	.11450	.87340	-.11450	-1.64150
1.200	184.240	-.25790	.53210	.10100	-.13790	-.03290	-1.53630	.11070	.91260	-.11070	-1.63910
1.200	182.210	-.10190	.38080	.02180	-.14560	-.02120	-1.59910	.09670	1.09440	-.09670	-1.63500
1.200	180.140	.06350	.19580	-.04800	-.13720	.00810	-1.61570	.08320	.70300	-.08320	-1.70100
1.200	178.080	.19460	-.07920	-.07880	-.00740	.03300	-1.67130	.08650	.70300	-.08650	-1.73790
1.200	176.040	.31830	-.30590	-.09220	-.00170	.05650	-1.72640	.08860	.77310	-.08860	-1.81500
1.200	174.000	.50350	-.54880	-.13350	.09880	.06260	-1.79090	.08190	.76930	-.08190	-1.87290
1.200	171.910	.74310	-.70450	-.23050	.19680	.12360	-1.86500	.09750	.77150	-.09750	-1.96260
1.200	169.950	.94010	-.86050	-.34860	.22500	.16570	-1.91810	.12870	.76730	-.12870	-2.04690
1.200	168.130	.07230	.15810	-.05700	-.13710	.00360	-1.82720	.08310	.37490	-.08310	-1.71040
GRADIENT		-.08056	.09218	.03150	-.00591	-.00972	.02045	.00131	.00579	-.00131	.01914

RUN NO. 54/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CNN	CLNN	CYN	CTNN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	190.180	-.69310	.10540	.22400	.04130	-.01950	-1.49320	.05770	.68340	-.05770	-1.74100
3.400	188.230	-.48250	.24630	.18560	.01240	-.02710	-1.68130	.05330	.71550	-.05330	-1.73470
3.400	186.210	-.36750	.28910	.15310	-.04590	-.01720	-1.67360	.04460	.74420	-.04460	-1.71830
3.400	184.190	-.23240	.24010	.09240	-.07480	-.02760	-1.69100	.03860	.78220	-.03860	-1.72960
3.400	182.170	-.14540	.18750	.06790	-.08150	-.01880	-1.71730	.03480	.81470	-.03480	-1.73210
3.400	180.150	-.05770	.06640	.05040	-.07120	-.01510	-1.74230	.03480	.79730	-.03480	-1.77720
3.400	178.120	.08090	-.06230	.03980	-.06420	-.00750	-1.75850	.03550	.76590	-.03550	-1.79400
3.400	176.100	.17010	-.17550	.03440	-.02620	.00790	-1.79800	.03850	.78190	-.03850	-1.83650
3.400	174.090	.29800	-.24620	.04110	.02500	.01010	-1.84120	.03730	.75610	-.03730	-1.87880
3.400	172.040	.44770	-.27950	.00940	.04210	.03960	-1.88480	.03370	.73050	-.03370	-1.93850
3.400	170.090	.64950	-.26700	-.01450	.01430	.05400	-1.91740	.05890	.70740	-.05890	-1.97640
3.400	168.130	-.05880	.08040	.03700	-.08190	-.02540	-1.73820	.03580	.03080	-.03580	-1.77400
GRADIENT		-.05997	.03161	.01074	-.00142	-.00371	.01238	.00006	-.00074	-.00006	.01232



TABULATED SOURCE DATA, NSFC TWT 507

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(IN07061) (23 APR 74)

NSFC 507(F44) TITAN III C 3RM (MRETP)

PARAMETRIC DATA

BETA = .000 PHI = 229.008

REFERENCE DATA

REF = .0360 94. IN XMRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

RUN NO. 159/ 0 RM/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMM	CLMM	CTM	CYMM	CBL	CA	CAB	KCP/L	CPB1	CAF
.997	-10.000	-.83480	-1.01760	.06350	-.19430	.05190	.03030	.10970	.49720	-.10970	.32030
.997	-9.000	-.86960	-.73710	.06310	-.20760	.05030	.01460	.09390	.51210	-.09390	.31070
.997	-8.000	-.55170	-.40600	.07070	-.19380	.05000	.00630	.00010	.55830	-.00010	.52630
.997	-4.070	-.46790	-.19030	.04990	-.15500	.06180	.38580	.06030	.60000	-.06030	.51740
.997	-2.030	-.32700	.05100	.06390	-.24280	.04500	.56230	.07020	.87160	-.07020	.49220
.997	-.020	-.22360	.28100	.04330	-.20270	.03330	.54670	.07430	.81030	-.07430	.47210
.997	1.990	-.11410	.80150	-.04300	-.17350	.06010	.55700	.06390	1.31830	-.06390	.49310
.997	4.010	.04590	.09760	-.01900	-.21000	.05840	.56780	.06820	-1.71290	-.06820	.49960
.997	6.010	.15160	1.11660	-.05410	-.31550	.06260	.57370	.06920	-.28040	-.06920	.50640
.997	8.030	.27260	1.47890	-.02900	-.35320	.09240	.58190	.07750	-.03500	-.07750	.50430
.997	9.980	.41370	1.72080	-.03230	-.41460	.10470	.60490	.09170	.12770	-.09170	.51320
.997	-.020	-.26030	.27100	-.00230	-.11740	.05380	.54980	.06020	.78330	-.06020	.48930
GRADIENT		.06141	.13096	-.01237	-.00202	.00041	-.00206	-.00033	-.19687	.00033	-.00172

RUN NO. 159/ 0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMM	CLMM	CTM	CYMM	CBL	CA	CAB	KCP/L	CPB1	CAF
.901	-10.070	-.83070	-1.03030	.05450	-.18370	.03320	.00710	.12070	.49450	-.12070	.00630
.901	-8.160	-.89050	-.75600	.06930	-.18770	.02020	.79710	.10300	.51290	-.10300	.00410
.901	-6.120	-.53580	-.45960	.07400	-.15300	.01920	.79020	.08350	.54290	-.08350	.70670
.901	-4.090	-.41580	-.13860	.05380	-.15040	.02440	.77530	.07310	.60930	-.07310	.70220
.901	-2.060	-.29680	.10320	.02930	-.13780	.02320	.75480	.06750	.69640	-.06750	.68730
.901	-.030	-.16240	.37150	-.00750	-.14020	.02960	.73170	.06040	.94090	-.06040	.60320
.901	2.010	-.06420	.64990	-.04560	-.16890	.02480	.75600	.06680	1.93150	-.06680	.00910
.901	4.040	.10260	.91890	-.05340	-.17710	.04200	.76480	.06690	-.48140	-.06690	.60790
.901	6.060	.22580	1.22100	-.09320	-.25360	.05360	.77580	.07420	-.03280	-.07420	.70150
.901	8.090	.33090	1.51940	-.14000	-.35530	.06450	.79800	.08650	.08420	-.08650	.71150
.901	10.040	.46750	1.86250	-.19780	-.44360	.09000	.81010	.10010	.00420	-.10010	.71000
.901	-.030	-.17440	.36210	-.00710	-.12690	.02730	.74800	.06950	.91410	-.06950	.67850
GRADIENT		.06243	.13083	-.01423	-.00416	.00171	-.00097	-.00064	-.04649	.00064	-.00033

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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## TABULATED SOURCE DATA, WSPC TWT 507

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WSPC 507 (FA4) TITAN III C SRM (HDET9)

(087083) ( 23 APR 74 )

## REFERENCE DATA

ORF = .0300 IN. INTP = 4.0330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 ORF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 229.000

RUN NO. 157/ 0 RM/L = 0.02 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	-10.130	-98330	-1.10000	-0.0250	-1.0660	.03390	1.20360	.23930	.49910	-.23930	.96420
1.197	-8.200	-77460	-0.81000	-0.0250	-1.1370	.03570	1.10780	.22000	.51760	-.22000	.96700
1.197	-6.160	-61140	-0.54960	.01630	-1.1380	.02500	1.16910	.20640	.53770	-.20640	.96260
1.197	-4.110	-44770	-0.20900	-0.0430	-1.0720	.02680	1.16620	.20000	.59240	-.20000	.95730
1.197	-2.070	-30090	-0.0560	-0.0890	-0.0650	.02750	1.16550	.21420	.67490	-.21420	.95120
1.197	-.010	-14550	.39930	-0.05920	-0.04250	.03300	1.15170	.19360	.96390	-.19360	.93910
1.197	2.020	-02070	.64230	-0.05770	-1.1410	.03480	1.13330	.18250	4.56600	-.18250	.97040
1.197	4.070	-12340	.98520	-0.07570	-1.4010	.04260	1.10230	.19170	-.34240	-.19170	.90860
1.197	6.090	-25040	1.35130	-0.07050	-1.7470	.04640	1.21290	.21400	-.02130	-.21400	.95610
1.197	8.140	-39480	1.74920	-0.06330	-2.7640	.06260	1.24660	.23810	.09180	-.23810	1.01030
1.197	10.120	-57960	2.16710	-0.03630	-3.9590	.08440	1.27060	.25430	.17500	-.25430	1.01630
1.197	-.010	-15590	.33020	-0.04920	-0.07400	.02670	1.15010	.18620	.91950	-.18620	.96390
GRADIENT		.06979	.14546	-.00793	-.00456	.00192	.00096	-.00320	.09845	.00320	.00419

RUN NO. 123/ 0 RM/L = 0.92 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.967	-10.190	-90470	-1.70960	.03350	-.04740	.02430	.93730	.13620	.41250	-.13620	.79900
1.967	-8.220	-69470	-1.26340	.04700	-.05370	.01840	.90620	.13070	.42130	-.13070	.77540
1.967	-6.160	-50080	-.07610	.04350	-.07120	.01140	.88460	.12130	.42960	-.12130	.76720
1.967	-4.110	-33580	-.52110	.02670	-.04640	.01490	.87930	.10780	.45310	-.10780	.77150
1.967	-2.060	-19810	-.20360	.00980	-.03390	.01610	.87080	.09560	.51310	-.09560	.77510
1.967	-.010	-09620	.14180	-0.00500	-.00410	.00970	.86070	.09070	.95950	-.09070	.77790
1.967	2.040	-11530	.59930	-0.03360	.00050	.01570	.86170	.09520	.03780	-.09520	.78640
1.967	4.090	-23680	.92700	-0.04470	-.01650	.02130	.89450	.09340	.16030	-.09340	.79910
1.967	6.150	-39440	1.37850	-0.04830	-.04790	.03170	.92780	.10860	.20920	-.10860	.81920
1.967	8.220	-59220	1.86380	-0.07020	-.10070	.05520	.96610	.12580	.25320	-.12580	.84030
1.967	10.220	-84750	2.33780	-0.08700	-.14730	.07280	.99750	.13880	.30240	-.13880	.85880
1.967	-.010	-03210	.16310	-0.01760	-.00370	.00650	.85110	.08370	1.29400	-.08370	.76530
GRADIENT		.07079	.17842	-.01024	.00459	.00031	.00201	-.00123	-.05169	.00123	.00324



DATE 11 JUL 74

TABULATED SOURCE DATA, MSFC TWT 507

PAGE 99

(R97061) (23 APR 74)

MSFC 507 (P44) TITAN III C SRM (MSBTP)

## REFERENCE DATA

REF = .0360 IN. XMRP = 4.6330 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 REF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 22/ 0 RM/L = 6.31 GRADIENT INTERVAL = -3.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	-10.240	-1.09020	-1.09020	.05100	-.07500	.00960	.75040	.06900	.40960	-.06900	.00140
3.400	-8.200	-.05100	-1.32100	.01100	-.00270	.00370	.73430	.06360	.39470	-.06360	.07000
3.400	-8.230	-.43730	-.95000	.04700	-.06160	.01020	.76610	.05920	.37630	-.05920	.06600
3.400	-4.200	-.29540	-.90030	.03200	-.00790	.00790	.70990	.05330	.40280	-.05330	.05320
3.400	-2.190	-.15200	-.26060	.00330	-.04000	.00560	.71020	.04930	.41910	-.04930	.06000
3.400	-.130	.00240	.05660	-.02170	-.01970	.00320	.71110	.04300	-.2.24780	-.04300	.06600
3.400	1.090	.13200	.40400	-.04400	-.03930	.01310	.73230	.04610	.26510	-.04610	.06410
3.400	3.930	.27340	.74640	-.03560	-.02240	.02240	.75590	.05290	.30600	-.05290	.70340
3.400	5.940	.45330	1.09120	-.05720	-.07960	.02660	.77190	.05990	.34600	-.05990	.71200
3.400	6.010	.70960	1.40890	-.05060	-.00960	.02940	.80580	.06780	.39900	-.06780	.73800
3.400	9.970	.98040	1.73630	-.10330	-.00320	.04360	.82660	.07200	.42730	-.07200	.75460
3.400	-.130	.00320	.04320	-.02800	-.02470	.01480	.71240	.04290	-.1.01270	-.04290	.66930
GRADIENT		.06996	.16417	-.01025	.00151	.00179	.00575	-.00033	-.01773	.00033	.00600

RUN NO. 23/ 0 RM/L = 4.91 GRADIENT INTERVAL = -3.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	-10.120	-.74250	-1.42620	.00760	-.03560	-.02450	.63530	.02600	.40600	-.02600	.00920
4.959	-8.190	-.57030	-1.17290	.00550	-.07060	-.00300	.61880	.02350	.39120	-.02350	.59320
4.959	-6.100	-.39920	-.89930	.00410	-.05790	.00610	.61050	.02330	.36950	-.02330	.58720
4.959	-4.100	-.25330	-.62380	-.04170	-.15250	-.03800	.56090	.01970	.33990	-.01970	.54110
4.959	-2.170	-.11080	-.33230	-.04200	-.07710	-.03150	.60430	.02020	.27190	-.02020	.50400
4.959	-.130	.09100	.06670	-.05820	-.04620	.00390	.60370	.01920	.55670	-.01920	.58440
4.959	1.090	.12020	.27600	-.07630	-.11990	-.04950	.61000	.01920	.36110	-.01920	.59070
4.959	3.600	.28910	.59040	-.05030	-.10230	-.05110	.63440	.02020	.39300	-.02020	.61410
4.959	5.900	.51970	.86600	-.06430	-.05340	.01290	.66720	.02330	.43550	-.02330	.64390
4.959	7.910	.69220	1.11130	-.08140	-.13040	.00000	.69360	.02350	.4.830	-.02350	.65030
4.959	9.850	.89550	1.36410	-.12210	-.03930	.03050	.75520	.02760	.45590	-.02760	.69730
4.959	-.130	.06290	.04440	-.07220	-.05390	-.04240	.59170	.02100	.58160	-.02100	.56990
GRADIENT		.06533	.15079	-.00298	.00285	-.00214	.00757	-.00000	.00977	.00000	.00757

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 507

PAGE 100

NSFC 907 (PA4) TITAN III C SHM (IMBTP)

(180700Z) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN ZMRP = 4.0300 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 223.000

RUN NO. 100/ 0 RM/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CW	CLW	CYN	CYN	CBL	CA	CAB	KCP/L	CPB1	CAF
.994	10.310	.39310	1.77170	-.03300	-.43690	.00490	.01730	.00190	.06400	-.00190	.53540
.994	12.440	.50030	2.00240	-.02030	-.51440	.10050	.02300	.00300	.10110	-.00300	.53000
.994	14.440	.60700	2.46110	-.00340	-.50770	.13160	.02720	.00720	.19810	-.00720	.52990
.994	16.470	.91210	2.83140	-.00820	-.64740	.16000	.02380	.10340	.25580	-.10340	.52020
.994	18.490	1.12330	3.20840	-.11330	-.70000	.18130	.01030	.11650	.28330	-.11650	.49390
.994	20.540	1.33930	3.60910	-.05640	-.71250	.21260	.59950	.13140	.30470	-.13140	.46000
.994	22.570	1.59620	4.03050	.04710	-.86070	.22500	.57630	.13390	.33030	-.13390	.42230
.994	24.600	1.86770	4.51300	.06190	-.95610	.23930	.55600	.15010	.34550	-.15010	.39790
.994	26.620	2.14410	4.97370	-.11120	-.96290	.29020	.52570	.15990	.35790	-.15990	.36980
.994	28.650	2.45850	5.40790	-.21490	-.99220	.31620	.48290	.14770	.37280	-.14770	.33310
.994	30.610	2.78430	5.97600	-.43720	-.99210	.37390	.45050	.16670	.37980	-.16670	.26370
.994	20.540	1.32640	3.62270	-.09800	-.76890	.21240	.59440	.13350	.30580	-.13350	.46090
GRADIENT		.11031	.20608	-.01042	-.02765	.01342	-.00841	.00435	.01327	-.00435	-.01276

RUN NO. 161/ 0 RM/L = 6.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CW	CLW	CYN	CYN	CBL	CA	CAB	KCP/L	CPB1	CAF
.099	10.000	.93220	1.90930	-.21470	-.48120	.00930	.01970	.10400	.19740	-.10400	.71970
.099	12.540	.71410	2.26660	-.25370	-.52540	.10400	.03960	.11120	.24980	-.11120	.72040
.099	14.510	.91030	2.60970	-.29170	-.56110	.11960	.02260	.11830	.28270	-.11830	.70420
.099	16.620	1.16230	3.14880	-.30130	-.60030	.14040	.00460	.12760	.30860	-.12760	.67700
.099	18.690	1.42010	3.69050	-.51970	-.62690	.16790	.79290	.12540	.32260	-.12540	.65700
.099	20.770	1.72670	4.31630	-.66540	-.59690	.20150	.77720	.13830	.33510	-.13830	.63890
.099	22.850	2.03130	4.94840	-.80000	-.56290	.23190	.74480	.14280	.34320	-.14280	.60190
.099	24.940	2.35010	5.60960	-.80390	-.57150	.25010	.72320	.15200	.35430	-.15200	.57120
.099	27.070	2.72680	6.72160	-.91700	-.63330	.29100	.68330	.15650	.33950	-.15650	.52670
.099	29.120	3.11360	7.53220	-.65770	-.59810	.31090	.63390	.17930	.34530	-.17930	.49460
.099	31.130	3.57240	8.50080	-.79970	-.55820	.34020	.58360	.16100	.35030	-.16100	.40280
.099	20.780	1.74170	4.31210	-.68590	-.59770	.19530	.76340	.13390	.33010	-.13390	.62780
GRADIENT		.14036	.32135	-.03354	-.00365	.01263	-.01157	.00369	.00609	-.00369	-.01526



NSFC 507 (PA4) TITAN III C SRM (MBETP)

(180706Z) ( 23 APR 74 )

## REFERENCE DATA

REF = .0000 IN. YMRP = 4.6330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 REF = .0000 IN. YMRP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 225.000

## PARAMETRIC DATA

RUN NO. 102/ 0 RM/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CYN	CYCN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.194	10.876	.57540	2.17700	-.03300	-.33190	-.07510	1.86720	.24360	.17260	-.24360	1.02390
1.194	12.830	.70760	2.62370	-.02710	-.30700	-.09760	1.27790	.23360	.22990	-.23360	1.02430
1.194	14.600	1.02760	3.12370	-.04690	-.46050	-.11350	1.23390	.23140	.26680	-.23140	1.00250
1.194	16.770	1.32630	3.71000	-.12250	-.49010	-.14790	1.23600	.23450	.29680	-.23450	.98140
1.194	18.000	1.87810	4.36670	-.23390	-.44490	-.17470	1.20060	.26200	.32210	-.26200	.94860
1.194	21.000	2.11640	5.15810	-.35650	-.40950	-.20940	1.16720	.27520	.34300	-.27520	.91190
1.194	23.130	2.61760	6.00960	-.60200	-.49410	-.24060	1.16510	.29200	.35720	-.29200	.87220
1.194	25.200	3.11660	7.04930	-.60250	-.49160	-.27420	1.14150	.29800	.36530	-.29800	.84260
1.194	27.400	3.66500	8.03560	-.66910	-.49090	-.31260	1.11170	.30760	.37400	-.30760	.80380
1.194	29.590	4.25020	8.93640	-.65630	-.41350	-.35100	1.07620	.31210	.38530	-.31210	.76400
1.194	31.620	4.93110	9.73350	-.92510	-.37520	-.37520	1.03740	.31860	.39900	-.31860	.71870
1.194	21.016	2.13020	5.22260	-.35720	-.44080	-.19930	1.17500	.26790	.34120	-.26790	.90700
GRADIENT		.20646	.37199	-.54711	-.00231	.01477	-.01129	.00368	.00966	-.00368	-.01317

RUN NO. 122/ 0 RM/L = 6.90 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CYN	CYCN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.932	10.750	.83490	2.37690	-.10170	-.10070	.05440	1.02060	.14510	.27900	-.14510	.87540
1.972	12.720	1.23120	2.65910	-.11450	-.22690	.07900	1.02340	.14900	.32930	-.14900	.87440
1.932	14.820	1.92310	3.42390	-.17960	-.20340	.09460	1.03440	.15230	.36680	-.15230	.86200
1.932	16.930	1.93720	3.95170	-.25610	-.16360	.10700	1.04650	.15670	.39330	-.15670	.86970
1.932	19.040	2.36730	4.48030	-.33240	-.16400	.12200	1.06390	.16990	.41400	-.16990	.89400
1.932	21.170	2.82770	4.96740	-.37480	-.16670	.13990	1.08660	.18250	.42830	-.18250	.90410
1.932	23.300	3.29210	5.52340	-.40030	-.16110	.15990	1.11100	.19270	.43800	-.19270	.91930
1.932	25.420	3.75380	6.13620	-.42940	-.16450	.17690	1.14050	.20080	.44460	-.20080	.93960
1.932	27.520	4.24250	6.69260	-.46270	-.14370	.19320	1.15090	.19700	.45300	-.19700	.95390
1.932	29.650	4.70280	7.10840	-.46980	-.13240	.22360	1.15160	.19530	.46020	-.19530	.95830
1.932	31.660	5.17240	7.56060	-.43990	-.19820	.25260	1.15710	.20030	.46660	-.20030	.95890
1.932	21.570	2.64190	4.95310	-.31900	-.14300	.14300	1.07690	.16430	.43080	-.16430	.89460
GRADIENT		.21096	.25036	-.01066	.00196	.00866	.00767	.00303	.00796	-.00303	-.00464



MOPC 507 (74A) TITAN III C SCH (MOPC)

(807002) ( 23 APR 74 )

## REFERENCE DATA

BREF = .0300 IN XREF = 4.0330 IN.  
 LBREF = .0000 IN. YREF = .0000 IN.  
 ZREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 23/ 0 RM/L = 0.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CP81	CAF
3.400	10.310	.00050	1.74040	-.11020	-.00270	.04450	.38820	.07240	.42400	-.07240	.70300
3.400	12.400	1.20390	2.07290	-.13320	-.00760	.05090	.06660	.07390	.44390	-.07390	.70270
3.400	14.310	1.59970	2.46090	-.16100	-.00180	.04470	.00130	.07420	.45180	-.07420	.02700
3.400	16.300	1.00000	2.83070	-.19370	-.04860	.00170	.93420	.07310	.45280	-.07310	.06110
3.400	18.010	2.17970	3.10020	-.10000	-.03270	.09320	.96690	.07000	.46600	-.07000	.09800
3.400	20.070	2.31990	3.53220	-.10300	-.00610	.09900	.99600	.07050	.47410	-.07050	.92820
3.400	22.720	2.00900	3.87330	-.19550	-.05630	.11850	1.03430	.06650	.48160	-.06650	.96300
3.400	24.790	3.30140	4.26000	-.23690	.03450	.14030	1.07540	.06540	.48790	-.06540	1.02000
3.400	26.030	3.00010	4.66730	-.28140	.02050	.15740	1.09990	.06760	.49130	-.06760	1.03220
3.400	28.910	4.04950	5.10460	-.32740	.00360	.17280	1.12460	.06130	.49190	-.06130	1.06330
3.400	30.900	4.47320	5.60350	-.37410	-.00610	.19790	1.15170	.03540	.49290	-.03540	1.09630
3.400	20.670	2.50630	3.52100	-.10420	-.10050	.10500	.99580	.07500	.47360	-.07500	.92490
GRADIENT		.17150	.10476	-.01070	.00907	.00732	.01578	-.00073	.00322	.00573	.01651

RUN NO. 24/ 0 RM/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CP81	CAF
4.959	10.370	.09370	1.41700	-.12430	-.10260	.01670	.76370	.03130	.45130	-.03130	.73230
4.959	12.510	1.15340	1.73500	-.15290	-.06040	.04760	.81340	.03009	.46140	-.03009	.70250
4.959	14.330	1.35540	1.97990	-.13470	-.11440	.05290	.84130	.03060	.46660	-.03060	.81070
4.959	16.390	1.67240	2.31210	-.18440	-.15460	.07000	.89110	.02980	.47630	-.02980	.06120
4.959	18.370	1.90740	2.57000	-.19690	-.10510	.10160	.95400	.02960	.48730	-.02960	.52320
4.959	20.400	2.33230	3.02200	-.22520	-.05100	.11860	1.00440	.02980	.48750	-.02980	.97460
4.959	22.420	2.67750	3.34110	-.26620	-.02150	.11090	1.05720	.02000	.49350	-.02000	1.02910
4.959	24.450	3.05160	3.74490	-.30050	-.00890	.11620	1.10860	.02550	.49620	-.02550	1.00350
4.959	26.450	3.42260	4.05630	-.30070	-.02750	.13350	1.16270	.02070	.50150	-.02070	1.14190
4.959	28.500	3.79510	4.49370	-.32590	-.10440	.12070	1.18300	.01700	.50160	-.01700	1.16650
4.959	30.430	4.16750	4.92000	-.34030	-.07190	.15020	1.20010	.01320	.50180	-.01320	1.10850
4.959	20.390	2.30540	2.93980	-.23920	-.07790	.13490	1.01490	.02600	.49010	-.02600	.90800
GRADIENT		.16498	.17344	-.01151	.00313	.00604	.02329	-.00084	.00254	.00084	.02413



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TUT 307

PAGE 103

NSFC 507(FAA) TITAN III C 88M (MSETP)

(037003) ( 23 APR 74 )

## REFERENCE DATA

BREV = -0.000 IN. XMRP = 4.0330 IN.  
 LUEP = -0.000 IN. YMRP = -0.000 IN.  
 BREV = -0.000 IN. ZMRP = -0.000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 223.000

RUN NO. 103/ 0 RM/L = 0.01 GRADIENT INTERVAL = -3.00/ 9.00

MACH	ALPHA	CNN	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CP81	CAF
1.194	31.030	4.94000	9.50043	-0.93970	-0.31360	.37000	1.01040	.29310	.40030	-.29310	.72930
1.194	33.000	1.36760	10.20570	-0.92370	-0.37030	.40470	.98220	.30300	.41930	-.30300	.67830
1.194	35.000	6.17100	10.04390	-0.84970	-0.42900	.43540	.95160	.31030	.42700	-.31030	.63320
1.175	36.110	6.73550	11.65210	-0.83500	-0.36050	.48270	.92170	.33710	.43320	-.33710	.59430
1.194	40.240	7.37830	12.23480	-0.97030	-0.10060	.48700	.89090	.34550	.43990	-.34550	.54530
1.194	42.300	7.97230	12.87350	-1.04310	.06730	.50340	.84920	.33730	.44710	-.33730	.51080
1.194	43.500	8.53260	13.57070	-1.05330	.04090	.53400	.79600	.33970	.45070	-.33970	.45830
1.194	46.620	9.38330	14.10820	-0.97580	.03440	.54620	.73260	.32820	.45490	-.32820	.40430
1.194	46.710	9.63230	14.60090	-0.96020	.05630	.56690	.66900	.32190	.46080	-.32190	.34700
1.194	50.610	10.13030	15.09110	-1.00210	.03600	.59070	.60870	.36230	.46290	-.36230	.24430
1.194	52.010	10.43670	15.62200	-1.01560	.10960	.61310	.54430	.35480	.46200	-.35480	.18940
1.194	42.300	7.99090	12.71900	-1.01530	-.03500	.49360	.86340	.34690	.45020	-.34690	.51430
GRADIENT		.26075	.29043	-.00399	.02994	.01099	-.02235	.00225	.00255	-.00225	-.02460

RUN NO. 26/ 0 RM/L = 0.34 GRADIENT INTERVAL = -3.00/ 9.00

MACH	ALPHA	CNN	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CP81	CAF
3.400	30.990	4.50000	5.82530	-0.36090	-.02440	.18260	1.17460	.05830	.49330	-.05830	1.11630
3.400	32.900	4.60030	6.08140	-0.30750	-.03340	.20030	1.18930	.05460	.49400	-.05460	1.13060
3.430	35.030	5.29590	6.36740	-0.42610	-.02370	.21770	1.20380	.05170	.49450	-.05170	1.13210
3.400	37.090	5.69030	7.01690	-0.47690	-.00960	.25220	1.21300	.04490	.49550	-.04490	1.16800
3.400	39.140	6.12190	7.48920	-0.52740	.01180	.28000	1.21900	.04090	.49660	-.04090	1.17810
3.400	41.230	6.53430	7.90340	-0.57760	.01370	.29130	1.20330	.03430	.49830	-.03430	1.17090
3.400	43.290	6.97310	8.34590	-0.63310	.06390	.33030	1.19930	.03090	.50000	-.03090	1.16830
3.400	45.380	7.38670	8.73760	-0.68890	.09000	.37760	1.18150	.02600	.50160	-.02600	1.15540
3.400	47.400	7.79930	9.18410	-0.73890	.11920	.40260	1.15950	.02120	.50240	-.02120	1.13520
3.400	49.490	8.20150	9.57930	-0.81200	.17180	.44790	1.12300	.00760	.50360	-.00760	1.11540
3.400	51.480	8.57780	9.94110	-0.88940	.22350	.47840	1.08120	-.00190	.50480	.00190	1.09310
3.400	41.220	6.52240	7.67030	-0.59320	.03660	.31200	1.21170	.03520	.49670	-.03520	1.17630
GRADIENT		.20060	.21007	-.02962	.01216	.01470	-.00416	-.00276	.00060	.00276	-.00136

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

DATE 11 JUL 74

TABULATED SOURCE DATA, WOPC TWT 237

PAGE 184

WOPC 987 (P44) TITAN III C 38M (MDETP)

(R07044) ( 23 APR 74 )

## REFERENCE DATA

DREF = .0300 36. IN XMRP = 4.1E-7 9. IN.  
 LREF = .9000 10. IN. YMRP = .0000 10. IN.  
 DREF = .0000 10. IN. ZMRP = .0000 10. IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 197/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	50.440	9.03030	10.00110	.20460	1.24340	.50670	.37940	.00000	.43440	.00000	.37940
.998	52.350	8.10390	10.42430	.19960	1.32540	.54550	.31030	.00000	.43530	.00000	.31030
.998	54.350	6.40110	10.96070	-.19320	1.13670	.60690	.22600	.00000	.43480	.00000	.22600
.998	56.360	6.65980	11.48420	-.83350	.93970	.67760	.12040	.00000	.43360	.00000	.12040
.998	58.360	6.67210	11.70440	-1.06210	.06820	.71050	.04460	.00000	.43590	.00000	.04460
.998	60.390	7.13350	12.01030	-1.40960	-.85040	.76380	-.02110	.00000	.43440	.00000	-.02110
.998	62.390	7.41800	12.22240	-1.54570	-1.39140	.78790	-.06250	.00000	.44290	.00000	-.06250
.998	64.390	7.63950	12.16170	-1.49410	-1.81560	.76180	-.11680	.00000	.45000	.00000	-.11680
.998	66.390	7.80350	12.17190	-1.21850	-1.50790	.76260	-.15050	.00000	.45410	.00000	-.15050
.998	68.390	7.92350	12.16590	-1.19960	-1.23190	.83530	-.18860	.00000	.45710	.00000	-.18860
.998	70.290	8.05010	11.98920	-1.15080	-.91000	.85640	-.24540	.00000	.46500	.00000	-.24540
.998	60.370	7.14480	11.01690	-1.52910	-1.02480	.76410	-.00660	.00000	.43860	.00000	-.00660
GRADIENT		.11427	.10229	-.07940	-.16124	.01694	-.03120	.00000	.00149	.00000	-.03120

RUN NO. 198/ 0 RN/L = 6.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	50.440	7.65190	15.17450	-1.27430	.15400	.58820	.48240	.00000	.40890	.00000	.48240
.998	52.760	8.30980	15.00780	-1.31350	.33650	.63250	.43980	.00000	.41380	.00000	.43980
.998	54.740	8.68070	15.75200	-1.26410	.40550	.66440	.40430	.00000	.42130	.00000	.40430
.998	56.750	8.87870	15.84320	-1.26600	.32000	.68750	.36780	.00000	.42560	.00000	.36780
.998	58.740	9.06040	15.81740	-1.25240	.23460	.72420	.36560	.00000	.43050	.00000	.36560
.998	60.690	9.92970	14.29060	-1.19410	.32090	.72200	.41030	.00000	.44690	.00000	.41030
.998	62.650	8.98710	13.34380	-1.12170	.17140	.73050	.44340	.00000	.46360	.00000	.44340
.998	64.640	9.27350	13.24820	-1.18900	.03560	.74790	.42520	.00000	.47070	.00000	.42520
.998	66.800	9.36610	12.75810	-1.15970	-.03130	.76560	.40100	.00000	.47910	.00000	.40100
.998	68.590	9.46850	12.17020	-1.18230	-.07680	.77890	.39250	.00000	.48880	.00000	.39250
.998	70.470	9.64380	11.78410	-1.21508	-.03940	.79690	.38900	.00000	.49680	.00000	.38900
.998	60.890	8.93160	14.13000	-1.19410	.35000	.73090	.42860	.00000	.45120	.00000	.42860
GRADIENT		.07380	-.21837	.00677	-.02110	.00951	-.00173	.00000	.00483	.00000	-.00173



TABULATED SOURCE DATA, NSFC TUT 587

DATE 11 JUL 74

(R07084) ( 23 APR 74 )

NSFC 587 (F44) TITAN III C SRM (HDETP)

PARAMETRIC DATA

REFERENCE DATA

SREF = .0366 IN XREF = 4.0330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 BREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074  
 BETA = .000 PHI = 225.000

RUN NO. 199/ 0 RM/L = 6.03 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAS	XCP/L	CPB1	CAF
1.201	50.916	9.40090	13.94300	-.94340	.20400	.59210	.89940	.00000	.46620	.00800	.85940
1.201	52.610	9.80260	13.96300	-.87270	.26740	.60650	.90230	.00000	.47270	.00000	.80230
1.201	54.800	10.20240	14.13420	-.91991	.32400	.63030	.72730	.00000	.47690	.00000	.72730
1.201	56.810	10.50100	14.33480	-.99350	.38090	.63100	.66070	.00000	.48000	.00000	.66070
1.201	58.600	10.80450	14.37990	-1.04660	.42500	.64810	.60910	.00000	.48440	.00000	.60910
1.201	60.820	11.22950	14.42030	-1.08920	.03430	.64920	.57740	.00000	.48890	.00000	.57740
1.201	62.820	11.55430	14.33140	-1.09110	-.03270	.65200	.53220	.00000	.49450	.00000	.53220
1.201	64.610	11.60240	14.37610	-1.11320	-.02150	.66160	.48800	.00000	.49810	.00000	.48800
1.201	66.700	12.10050	14.15450	-1.13690	.02770	.67670	.45400	.00000	.50350	.00000	.45400
1.201	68.700	12.26260	13.76900	-1.12770	.08770	.68060	.42540	.00000	.50940	.00000	.42540
1.201	70.600	12.42310	13.59790	-1.14070	.10150	.69820	.38370	.00000	.51290	.00000	.38370
1.201	60.820	11.18320	14.24890	-1.08400	.04370	.65510	.58250	.00000	.49020	.00000	.58250
GRADIENT		.15124	-.00941	-.01367	-.01356	.00474	-.02345	.00000	.00232	.00000	-.02345

RUN NO. 250/ 0 RM/L = 6.99 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAS	XCP/L	CPB1	CAF
1.944	50.780	8.81220	10.51150	-.85600	.16600	.49040	1.01180	.00000	.50030	.00000	1.01180
1.944	52.680	9.24900	10.63370	-.90950	.18620	.51940	.96820	.00000	.50320	.00000	.96820
1.944	54.730	9.71600	11.24310	-.96510	.19590	.54390	.95610	.00000	.50500	.00000	.95610
1.944	56.730	10.13640	11.47260	-1.00660	.22740	.56370	.92260	.00000	.50920	.00000	.92260
1.944	58.740	10.51260	11.67130	-1.04130	.25920	.59250	.89360	.00000	.51100	.00000	.89360
1.944	60.770	10.89700	11.78940	-1.08640	.27420	.61720	.86670	.00000	.51450	.00000	.86670
1.944	62.770	11.17390	11.79010	-1.13850	.30210	.64450	.83310	.00000	.51790	.00000	.83310
1.944	64.770	11.42060	11.79610	-1.17750	.34010	.67040	.80260	.00000	.52060	.00000	.80260
1.944	66.750	11.70840	11.95060	-1.23160	.39410	.69540	.77400	.00000	.52320	.00000	.77400
1.944	68.770	11.99970	11.98490	-1.27660	.40960	.71280	.72260	.00000	.52510	.00000	.72260
1.944	70.850	12.29620	12.01350	-1.30530	.38520	.72550	.66470	.00000	.52740	.00000	.66470
1.944	60.720	10.71940	11.47350	-1.07920	.27310	.61600	.85320	.00000	.51600	.00000	.85320
GRADIENT		.17140	.96827	-.08249	.01301	.01214	-.01656	.00000	.00140	.00000	-.01656

DATE 11 JUN 74

TABULATED SOURCE DATA, NSFC TWT 507

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NSFC 507 (PAA) TITAN III C SEM (MDETP)

(197064) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN. YMRP = 4.6330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 REF = .0000 IN. YMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 299/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWN	CTN	CTWN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	50.530	0.00090	9.00730	-.62310	.26330	.43640	1.17210	.00000	.50900	.00000	1.17210
3.480	52.440	0.37780	9.32450	-.90470	.30660	.46690	1.13990	.00000	.51060	.00000	1.13990
3.480	54.450	0.74020	9.63910	-.95900	.36130	.51150	1.11090	.00000	.51160	.00000	1.11090
3.480	56.460	0.91720	10.00400	-1.03990	.43100	.54630	1.07360	.00000	.51260	.00000	1.07360
3.480	58.470	0.95210	10.28480	-1.12990	.48600	.59840	1.04190	.00000	.51460	.00000	1.04190
3.480	60.500	0.87080	10.44500	-1.18990	.49360	.63090	.99960	.00000	.51750	.00000	.99960
3.480	62.500	10.15750	10.64020	-1.25630	.54190	.66740	.94090	.00000	.51890	.00000	.94090
3.480	64.510	10.46440	10.91790	-1.31600	.62040	.69060	.89410	.00000	.51940	.00000	.89410
3.480	66.520	10.79590	11.17400	-1.36270	.68060	.73600	.85060	.00000	.52070	.00000	.85060
3.480	68.520	11.02880	11.15290	-1.44240	.69080	.76860	.80500	.00000	.52300	.00000	.80500
3.480	70.400	11.23270	11.09220	-1.49480	.65160	.78460	.76820	.00000	.52650	.00000	.76820
3.480	60.480	9.89420	10.41790	-1.18310	.49890	.66340	.99480	.00000	.51770	.00000	.99480
GRADIENT		.16429	.11122	-.03387	.02188	.01809	-.02091	.00000	.00083	.00000	-.02091

RUN NO. 299/ 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWN	CTN	CTWN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	50.340	7.92180	0.97950	-.92460	.33850	.45190	1.20910	.00000	.50880	.00000	1.20910
4.939	52.230	8.27543	9.17660	-.99210	.36630	.49650	1.25370	.00000	.51110	.00000	1.25370
4.939	54.200	8.73065	9.70590	-1.06230	.41950	.50430	1.21340	.00000	.51090	.00000	1.21340
4.939	56.260	9.00190	10.04810	-1.12880	.53950	.53290	1.17360	.00000	.51150	.00000	1.17360
4.939	58.290	9.43730	10.35630	-1.22420	.62090	.58740	1.12870	.00000	.51290	.00000	1.12870
4.939	60.290	9.78710	10.65470	-1.30750	.63500	.62530	1.05310	.00000	.51370	.00000	1.05310
4.939	62.280	10.13590	10.84030	-1.37490	.70600	.68300	.99880	.00000	.51490	.00000	.99880
4.939	64.300	10.31210	11.21650	-1.44290	.73290	.69550	.95170	.00000	.51640	.00000	.95170
4.939	66.290	10.77140	11.28270	-1.51100	.68190	.70100	.88590	.00000	.51890	.00000	.88590
4.939	68.300	11.09240	11.42760	-1.55090	.69650	.75840	.84230	.00000	.52110	.00000	.84230
4.939	70.180	11.32410	11.41400	-1.59110	.63550	.77590	.78780	.00000	.52390	.00000	.78780
4.939	60.270	9.78490	10.65130	-1.30650	.66490	.65270	1.07260	.00000	.51370	.00000	1.07260
GRADIENT		.17279	.13146	-.03504	.01855	.01749	-.02599	.00000	.00071	.00000	-.02599

TABULATED SOURCE DATA, NSFC TWT 507

DATE 11 JUL 74

(R07005) ( 23 APR 74 )

NSFC 507 (FAA) TITAN III C SRM (MDETP)

PARAMETRIC DATA

BETA = .000 PHI = 223.000

REFERENCE DATA

BREF = .0300 IN. INRP = .4.6330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

RUN NO. 196/ 1 RM/L = 4.93 GRADIENT INTERVAL = -9.00/ 5.00

ALPHA	CMW	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
.599	70.450	7.93540	11.48900	-1.19400	-.90150	-.10660	.00000	.48820	.00000	-.10660
.599	72.340	7.98210	11.19050	-1.14400	-.83990	-.15000	.00000	.47200	.00000	-.15000
.599	74.300	7.92220	10.71800	-1.12920	-.89680	-.16400	.00000	.48020	.00000	-.16400
.599	76.280	7.90430	9.96000	-1.07570	-.93650	-.12960	.00000	.49200	.00000	-.12960
.599	78.240	7.71050	8.53600	-1.07620	-.90630	-.00940	.00000	.51140	.00000	-.00940
.599	80.240	7.70220	7.59960	-1.07940	-.92190	.10000	.00000	.52730	.00000	.10000
.599	82.220	7.70120	6.91790	-1.10640	-.98060	.13000	.00000	.53760	.00000	.13000
.599	84.210	7.79550	6.43610	-1.16890	-.97930	.12930	.00000	.54700	.00000	.12930
.599	86.190	7.82650	5.89340	-1.15740	-.99770	.14400	.00000	.55630	.00000	.14400
.599	88.180	7.88630	5.42280	-1.15820	1.00490	.12500	.00000	.56440	.00000	.12500
.599	90.070	7.94410	5.01670	-1.23880	1.02540	.11350	.00000	.57150	.00000	.11350
.599	90.240	7.86390	7.53280	-1.12130	-.93100	.09970	.00000	.52710	.00000	.09970
GRADIENT	.00003	-.36187	-.00270	.05482	.00656	.01745	.00000	.00361	.00000	.01745

RUN NO. 195/ 0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CMW	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
.901	70.630	9.47730	11.48040	-1.29480	-.02190	.44630	.00000	.49820	.00000	.44630
.901	72.310	9.81700	11.08190	-1.30830	-.03590	.40480	.00000	.50360	.00000	.40480
.901	74.470	9.82550	10.76320	-1.33080	.02120	.34360	.00000	.51280	.00000	.34360
.901	76.450	9.96140	10.38600	-1.32840	.08220	.32000	.00000	.51950	.00000	.32000
.901	78.430	10.07300	9.95070	-1.32510	.15720	.30490	.00000	.52640	.00000	.30490
.901	80.430	10.14310	9.51550	-1.31750	.20510	.27090	.00000	.53270	.00000	.27090
.901	82.420	10.24010	9.23370	-1.33580	.20540	.23090	.00000	.53740	.00000	.23090
.901	84.400	10.34400	8.93350	-1.37070	.17980	.19240	.00000	.54220	.00000	.19240
.901	86.360	10.36590	8.51090	-1.39880	.19900	.15350	.00000	.54760	.00000	.15350
.901	88.370	10.33060	8.21230	-1.38210	.24340	.11250	.00000	.55260	.00000	.11250
.901	90.290	10.34960	7.82460	-1.41320	.27760	.09210	.00000	.55760	.00000	.09210
.901	90.440	10.23200	9.56300	-1.29140	.19250	.06690	.00000	.53320	.00000	.06690
GRADIENT	.05328	-.18486	-.00541	.01562	.00317	-.01749	.00000	.00298	.00000	-.01749

DATE 11 JUL 74

TABULATED SOURCE DATA, WSPC TWT 387

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WSPC 387 (P44) TITAN III C 38W (WDETP)

(R97003) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN. ZWSP = 4.6330 IN.  
 LREF = .9000 IN. YWSP = .0000 IN.  
 BREF = .9000 IN. ZWSP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PM1 = 223.000

RUN NO. 194/ 0 RM/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.198	70.820	12.27240	13.35740	-1.15320	.00190	.71980	.47210	.00000	.51370	.00000	.47210
1.198	72.710	12.45310	13.11340	-1.19030	.05670	.72450	.44030	.00000	.51820	.00000	.44030
1.198	74.670	12.64030	12.80900	-1.20910	.10320	.74030	.41630	.00000	.52330	.00000	.41630
1.198	76.640	12.78990	12.47830	-1.21350	.05930	.74310	.38500	.00000	.52800	.00000	.38500
1.198	78.620	12.87860	12.15160	-1.19400	.12370	.73610	.34490	.00000	.53210	.00000	.34490
1.198	80.620	12.98190	11.79160	-1.22120	.13960	.76380	.32480	.00000	.53650	.00000	.32480
1.198	82.610	13.13080	11.56320	-1.23420	.16170	.77790	.30590	.00000	.54010	.00000	.30590
1.198	84.590	13.28920	11.32150	-1.24890	.19050	.77990	.28950	.00000	.54370	.00000	.28950
1.198	86.550	13.38570	10.94800	-1.25910	.29970	.79250	.29700	.00000	.54800	.00000	.29700
1.198	88.550	13.39410	10.56470	-1.32430	.26120	.78990	.26120	.00000	.55160	.00000	.26120
1.198	90.430	13.37310	10.22500	-1.33790	.28830	.79340	.22260	.00000	.55470	.00000	.22260
1.198	92.020	12.95680	11.78420	-1.21610	.13890	.76070	.32150	.00000	.53660	.00000	.32150
GRADIENT		.05889	-.15826	-.00842	.01306	.00399	-.01176	.00000	.00208	.00000	-.01176

RUN NO. 231/ 0 RM/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.985	70.790	11.93680	11.57600	-1.30600	.39440	.73090	.70060	.00000	.52870	.00030	.70060
1.985	72.680	12.17340	11.50710	-1.33890	.40250	.73840	.66260	.00000	.53190	.00000	.66260
1.985	74.660	12.32310	11.26340	-1.35390	.43420	.75630	.62420	.00000	.53560	.00000	.62420
1.985	76.650	12.58450	11.22000	-1.39020	.45730	.77680	.59960	.00000	.53360	.00000	.59960
1.985	78.630	12.77000	11.14080	-1.42100	.49720	.79390	.54940	.00000	.54110	.00000	.54940
1.985	80.680	12.87230	10.95380	-1.47170	.52210	.81190	.49550	.00000	.54380	.00000	.49550
1.985	82.630	12.99440	10.78660	-1.51130	.52870	.81980	.44170	.00000	.54640	.00000	.44170
1.985	84.630	13.12590	10.62810	-1.54490	.52760	.83700	.39330	.00000	.54900	.00000	.39330
1.985	86.620	13.19170	10.49750	-1.58490	.51030	.85040	.32810	.00000	.55080	.00000	.32810
1.985	88.610	13.21020	10.36220	-1.58650	.50800	.85560	.25730	.00000	.55220	.00000	.25730
1.985	90.490	13.20540	10.29750	-1.61800	.52190	.87010	.19050	.00000	.55340	.00000	.19050
1.985	92.030	12.82070	10.94350	-1.46450	.32360	.81640	.49260	.00000	.54340	.00000	.49260
GRADIENT		.06785	-.06794	-.01839	.00670	.00731	-.02350	.00000	.00126	.00000	-.02350



(1897065) ( 23 APR 74 )

NAFPC 907(FAA) TITAN III C DRG (MDETP)

PARAMETRIC DATA

REFERENCE DATA

BREF = .6300 IN. INREP = 4.6350 IN.  
LREF = .9000 IN. TREF = .0000 IN.  
BREF = .9000 IN. ZREF = .0000 IN.  
SCALE = .0074

BETA = .000 PHI = 225.000

RUN NO. 301/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
70.500	11.21550	10.97910	-1.51100	.68230	.74010	.81640	.00000	.52760	.00000	.81640
72.440	11.47050	10.93530	-1.54720	.60860	.76790	.77320	.00000	.53080	.00000	.77320
74.450	11.71120	10.87860	-1.57580	.53690	.80540	.73230	.00000	.53390	.00000	.73230
76.450	11.88830	10.80710	-1.58900	.45100	.82290	.67480	.00000	.53640	.00000	.67480
78.450	12.09100	10.76270	-1.62370	.39990	.85430	.63180	.00000	.53460	.00000	.63180
80.480	12.22890	10.58360	-1.66400	.37550	.86770	.58660	.00000	.54190	.00000	.58660
82.430	12.39030	10.46890	-1.69630	.35260	.88580	.50970	.00000	.54450	.00000	.50970
84.440	12.49320	10.30670	-1.71060	.41060	.89050	.43900	.00000	.54700	.00000	.43900
86.440	12.55820	10.20370	-1.72640	.42700	.90220	.38960	.00000	.54860	.00000	.38960
88.430	12.58330	10.05620	-1.72980	.43270	.89620	.28740	.00000	.55030	.00000	.28740
90.300	12.59660	9.92610	-1.73900	.46860	.89380	.22480	.00000	.55170	.00000	.22480
92.440	12.22920	10.61410	-1.65670	.37870	.87730	.57380	.00000	.54160	.00000	.57380
GRADIENT	.07051	-.05534	-.01207	-.00934	.00795	-.03012	.00000	.00123	.00000	-.03012

RUN NO. 300/ 0 RM/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
70.340	11.35990	11.09710	-1.84320	.61450	.77490	.90400	.00000	.52780	.00000	.90400
72.220	11.56240	10.97220	-1.87090	.49450	.79000	.85110	.00000	.53140	.00000	.85110
74.240	11.78220	11.02700	-1.89730	.43220	.84170	.81060	.00000	.53260	.00000	.81060
76.240	12.05020	11.08900	-1.73920	.30980	.81230	.74310	.00000	.53500	.00000	.74310
78.260	12.22280	10.99950	-1.74990	.30030	.85520	.68040	.00000	.53760	.00000	.68040
80.280	12.39980	10.87950	-1.81530	.31390	.89150	.62040	.00000	.54040	.00000	.62040
82.290	12.54440	10.80140	-1.84130	.26450	.89130	.54410	.00000	.54250	.00000	.54410
84.290	12.62920	10.73940	-1.83780	.31580	.89580	.46610	.00000	.54360	.00000	.46610
86.230	12.68480	10.71710	-1.86360	.32580	.90040	.38410	.00000	.54450	.00000	.38410
88.290	12.68930	10.65690	-1.87550	.37960	.91550	.29290	.00000	.54520	.00000	.29290
90.130	12.65960	10.51070	-1.87330	.38360	.88260	.20950	.00000	.54640	.00000	.20950
92.240	12.42850	10.93150	-1.81530	.32860	.90110	.62990	.00000	.54020	.00000	.62990
GRADIENT	.04966	-.02745	-.01259	-.00821	.00649	-.03328	.00000	.00094	.00000	-.03328



DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TUT 507

PAGE 110

NSPC 507(744) TITAN III C 88M (MDETP)

(237000) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN YMRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PMI = 225.000

RUN NO. 219/ 0 RM/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLMN	CYN	CYNN	CBL	CA	CAS	XCP/L	CPB1	CAF
.999	109.440	7.37800	.31100	-1.30710	-.25090	.00310	-.30430	.00000	.64610	.00000	-.30430
.999	107.710	7.42150	.78110	-1.29080	-.23060	.00310	-.23770	.00000	.63020	.00000	-.23770
.999	105.720	7.52060	1.22040	-1.28000	-.23020	.00850	-.16390	.00000	.63090	.00000	-.16390
.999	103.730	7.61060	1.69720	-1.26450	-.23090	.00900	-.04660	.00000	.62340	.00000	-.04660
.999	101.740	7.74770	2.08410	-1.24550	-.19250	.00910	.05060	.00000	.61740	.00000	.05060
.999	99.750	7.83900	2.44800	-1.30600	.07690	.00990	.17890	.00000	.61200	.00000	.17890
.999	97.730	7.91410	2.85800	-1.43220	.09460	.03000	.27950	.00000	.60580	.00000	.27950
.999	95.750	7.94200	3.28590	-1.47520	-.04370	.04360	.32440	.00000	.59910	.00000	.32440
.999	93.780	8.03960	3.61310	-1.50720	-.13450	.01420	.32440	.00000	.59140	.00000	.32440
.999	91.780	7.99300	4.43370	-1.47270	-.46920	.02770	.27890	.00000	.58120	.00000	.27890
.999	89.910	8.08690	4.94180	-1.47930	-.62140	.01340	.26150	.00000	.57410	.00000	.26150
.999	99.750	7.82950	2.48270	-1.30660	.00290	.03610	.17370	.00000	.61130	.00000	.17370
GRADIENT		-.03752	-.22716	.01305	.00840	-.00229	-.03360	.00000	.00352	.00000	-.03360

RUN NO. 220/ 0 RM/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLMN	CYN	CYNN	CBL	CA	CAS	XCP/L	CPB1	CAF
.900	109.440	9.31210	2.18140	-.03730	.40420	.77870	-.27440	.00000	.62180	.00000	-.27440
.900	107.950	9.44290	2.59180	-.08160	.44090	.78010	-.15430	.00000	.61670	.00000	-.15430
.900	105.560	9.67080	3.10640	-.00040	.42010	.80190	-.02650	.00000	.61080	.00000	-.02650
.900	103.580	9.78060	3.49320	-.92110	.43890	.80900	.09220	.00000	.60830	.00000	.09220
.900	101.590	9.99700	4.00160	-.93490	.45010	.80960	.19220	.00000	.60080	.00000	.19220
.900	99.590	10.10080	4.49840	-.74290	.43850	.81160	.24020	.00000	.59310	.00000	.24020
.900	97.630	10.26980	5.10170	-1.01030	.44850	.81940	.23900	.00000	.58860	.00000	.23900
.900	95.650	10.35190	5.71260	-1.01680	.41690	.80850	.21520	.00000	.58160	.00000	.21520
.900	93.680	10.39230	6.26880	-.99990	.40160	.81960	.22920	.00000	.57310	.00000	.22920
.900	91.680	10.39940	6.92710	-.95910	.41640	.81430	.24180	.00000	.56840	.00000	.24180
.900	89.620	10.59410	7.37420	-.93560	.39800	.80220	.26740	.00000	.56340	.00000	.26740
.900	99.610	10.19800	4.60730	-.97010	.47540	.81530	.23300	.00000	.59430	.00000	.23300
GRADIENT		-.08655	-.26875	.00622	.00134	-.00146	-.02470	.00000	.00301	.00000	-.02470



DATE 11 JUL 74  
 TABULATED SOURCE DATA, NSFC TUT 587  
 NSFC 587(744) TITAN 111 C SRN (HSETP)

(007000) ( 23 APR 74 )

PARAMETRIC DATA

BETA = .000 PHI = 225.000

REFERENCE DATA

REF = .0300 IN XIMP = 4.0330 IN.  
 LREF = .0000 IN. YIMP = .0000 IN.  
 RREF = .0000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

RUN NO. 221/ 0 RN/L = 0.01 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.194	109.300	11.02190	5.40000	-76450	.01000	.07160	-.58230	.00000	.59270	.00000	-.58230
1.194	107.430	12.05010	5.00000	-76460	.04500	.06270	-.43650	.00000	.58970	.00000	-.43650
1.194	105.500	12.30900	6.34100	-77770	.05000	.08060	-.31600	.00000	.58630	.00000	-.31600
1.194	103.940	12.51070	6.00550	-76130	.70340	.09090	-.21840	.00000	.58270	.00000	-.21840
1.194	101.540	12.79000	7.46330	-76200	.72660	.09640	-.11850	.00000	.57770	.00000	-.11850
1.194	99.370	12.93000	8.20330	-73640	.74570	.09650	-.02050	.00000	.57130	.00000	-.02050
1.194	97.590	13.12170	8.79310	-74700	.70390	.71150	.06960	.00000	.56670	.00000	.06960
1.194	95.590	13.23090	9.16020	-74330	.69490	.70360	.16000	.00000	.56390	.00000	.16000
1.194	93.620	13.39110	9.55370	-73650	.71320	.70040	.23660	.00000	.56120	.00000	.23660
1.194	91.620	13.50760	10.03050	-71710	.66630	.69630	.30040	.00000	.55740	.00000	.30040
1.194	89.760	13.62360	10.42640	-73940	.61150	.68030	.34550	.00000	.55460	.00000	.34550
1.194	87.970	12.93910	8.18740	-74960	.72960	.69760	-.02450	.00000	.57140	.00000	-.02450
1.194	86.000	12.00000	0.00000	-.00000	-.00000	-.00104	-.04646	.00000	.00204	.00000	-.04646

RUN NO. 256/ 0 RN/L = 0.09 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.934	109.450	11.02370	7.15180	-93720	.59520	.69430	-.59070	.00000	.57360	.00000	-.59070
1.934	107.500	11.84640	7.48330	-97050	.61800	.71590	-.47500	.00000	.57150	.00000	-.47500
1.934	105.570	12.09170	7.84320	-1.01430	.66050	.73000	-.37730	.00000	.56940	.00000	-.37730
1.934	103.500	12.32250	8.22390	-1.02430	.69630	.73870	-.27400	.00000	.56700	.00000	-.27400
1.934	101.500	12.55090	8.56320	-1.04040	.68600	.75650	-.16980	.00000	.56510	.00000	-.16980
1.934	99.500	12.71920	8.84160	-1.06050	.70090	.76000	-.06480	.00000	.56350	.00000	-.06480
1.934	97.570	12.86190	9.11720	-1.07050	.71080	.77980	.03070	.00000	.56160	.00000	.03070
1.934	95.500	12.99760	9.37790	-1.07350	.72370	.77350	.11450	.00000	.56020	.00000	.11450
1.934	93.500	13.17330	9.67320	-1.08360	.73250	.78580	.19440	.00000	.55830	.00000	.19440
1.934	91.600	13.23030	9.94190	-1.06290	.72360	.78420	.28860	.00000	.55640	.00000	.28860
1.934	89.730	13.32440	10.20660	-1.04500	.72440	.78030	.33340	.00000	.55450	.00000	.33340
1.934	87.900	12.60070	8.05000	-1.06150	.69790	.76190	-.08000	.00000	.56300	.00000	-.08000
1.934	86.000	12.00000	0.00000	-.00000	-.00000	-.00441	-.04710	.00000	.00094	.00000	-.04710

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

DATE 11 JUL 74

TABULATED SOURCE DATA, MAFPC TUT 507

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MAFPC 507 (74A) TITAN III C 3RM (MBCTP)

(897066) ( 23 APR 74 )

## REFERENCE DATA

REF = .0360 IN XREF = 4.6330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 ZREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 223.000

RUN NO. 282/ 0 RM/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CW	CLW	CYN	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
3.480	109.600	11.00400	6.99970	-1.14750	.43840	.71710	-.58250	.00000	.37100	.00000	-.58250
3.480	107.720	11.25150	7.32140	-1.17790	.47740	.73130	-.48750	.00000	.56910	.00000	-.48750
3.480	105.700	11.40480	7.70880	-1.20270	.48840	.75940	-.38490	.00000	.56640	.00000	-.38490
3.480	103.710	11.69110	8.12010	-1.27620	.59380	.77980	-.29580	.00000	.56360	.00000	-.29580
3.480	101.710	11.92200	8.42080	-1.34060	.70350	.77560	-.20350	.00000	.56210	.00000	-.20350
3.480	99.700	12.13680	8.72620	-1.35130	.86180	.78440	-.09570	.00000	.56050	.00000	-.09570
3.480	97.720	12.25140	9.01830	-1.35730	.85840	.79120	-.00450	.00000	.55830	.00000	-.00450
3.480	95.730	12.37640	9.27580	-1.37600	.84500	.79940	.08460	.00000	.55660	.00000	.08460
3.480	93.740	12.47780	9.58990	-1.37940	.80950	.80550	.17670	.00000	.55420	.00000	.17670
3.480	91.720	12.58000	9.82290	-1.37650	.82500	.79590	.25460	.00000	.55270	.00000	.25460
3.480	89.890	12.64360	10.00910	-1.37410	.87530	.79440	.33760	.00000	.55130	.00000	.33760
3.480	87.910	12.10120	8.60840	-1.33490	.85750	.78240	-.10340	.00000	.56140	.00000	-.10340
GRADIENT		-.08349	-.15376	.01222	-.01006	-.00384	-.04673	.00000	.00100	.00000	-.04673

RUN NO. 283/ 0 RM/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CW	CLW	CYN	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
4.959	109.730	10.94530	7.37830	-1.21150	.34480	.69460	-.61310	.00000	.56620	.00000	-.61310
4.959	107.850	11.20280	7.75930	-1.21750	.37450	.73240	-.51840	.00000	.56380	.00000	-.51840
4.959	105.930	11.48490	8.09350	-1.28200	.46320	.72510	-.43490	.00000	.56230	.00000	-.43490
4.959	103.930	11.67460	8.40930	-1.35080	.51620	.77000	-.32840	.00000	.56030	.00000	-.32840
4.959	101.930	11.89760	8.65160	-1.40960	.62940	.78590	-.21450	.00000	.55940	.00000	-.21450
4.959	99.930	12.09740	8.87980	-1.44230	.65800	.77560	-.10390	.00000	.55860	.00000	-.10390
4.959	97.930	12.28730	9.09070	-1.44420	.62770	.81110	-.00050	.00000	.55770	.00000	-.00050
4.959	95.910	12.38200	9.33500	-1.43200	.58860	.82210	.09310	.00000	.55610	.00000	.09310
4.959	93.830	12.32160	9.43910	-1.46370	.64850	.80900	.19060	.00000	.55610	.00000	.19060
4.959	91.810	12.37320	9.61920	-1.48020	.64020	.81780	.28760	.00000	.55460	.00000	.28760
4.959	89.930	12.60630	9.63770	-1.48700	.66300	.80750	.36350	.00000	.55470	.00000	.36350
4.959	87.930	12.04180	8.85180	-1.42830	.68090	.78490	-.11370	.00000	.55840	.00000	-.11370
GRADIENT		-.08324	-.11439	.01420	-.01529	-.00587	-.05039	.00000	.00056	.00000	-.05039



DATE 11 JUL 74

## TABULATED SOURCE DATA, NSPC TWT 587

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NSPC 987 (FA4) TITAN III C 3RN (INSETP)

(187067) ( 23 APR 74 )

## REFERENCE DATA

REF = .6300 IN. XMRP = 4.6300 IN.  
LREF = .9000 IN. YMRP = .0000 IN.  
REF = .9000 IN. ZMRP = .0000 IN.  
SCALE = .0574

## PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 218/ 0 RM/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
.900	129.370	6.00000	-1.57690	-1.48600	-1.34820	.57690	-1.04220	.00000	.64470	.00000	-1.04220
.900	127.660	6.21290	-1.59270	-1.42180	-1.04940	.62040	-.97430	.00000	.68390	.00000	-.97430
.900	125.660	6.40760	-1.51140	-1.29610	-.71810	.64190	-.80950	.00000	.68130	.00000	-.80950
.900	123.660	6.52720	-1.46720	-1.13630	-.77110	.66890	-.79700	.00000	.67990	.00000	-.79700
.900	121.660	6.68530	-1.32940	-1.04810	-.64490	.70090	-.69770	.00000	.67660	.00000	-.69770
.900	119.660	6.87830	-1.10900	-1.11610	-.56020	.74300	-.60140	.00000	.67190	.00000	-.60140
.900	117.660	7.04380	-.90720	-1.18090	-.53930	.74710	-.50110	.00000	.66780	.00000	-.50110
.900	115.660	7.13770	-.66170	-1.24590	-.53960	.77730	-.41950	.00000	.68320	.00000	-.41950
.900	113.670	7.21590	-.43410	-1.26440	-.50260	.81680	-.33110	.00000	.65910	.00000	-.33110
.900	111.650	7.31580	-.05950	-1.27640	-.39690	.82590	-.27620	.00000	.65250	.00000	-.27620
.900	109.780	7.43470	.35910	-1.29500	-.30830	.83440	-.19830	.00000	.64540	.00000	-.19830
.900	119.660	6.66200	-1.10560	-1.11560	-.53620	.72170	-.61360	.00000	.67190	.00000	-.61360
GRADIENT		-.07102	-.09621	-.00583	-.04151	-.01323	-.04404	.00000	.00197	.00000	-.04404

RUN NO. 217/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
.903	129.380	7.15680	-1.40170	-.89100	-.35070	.57620	-1.28030	.00000	.67630	.00000	-1.28030
.903	127.450	7.42290	-1.27650	-.84330	-.25960	.59970	-1.21030	.00000	.67320	.00000	-1.21030
.903	125.460	7.59480	-.98750	-.84720	-.18210	.62170	-1.10680	.00000	.66790	.00000	-1.10680
.903	123.460	7.89470	-.60950	-.86130	-.13020	.64500	-1.00510	.00000	.66120	.00000	-1.00510
.903	121.470	8.08000	-.24510	-.86680	-.05610	.66350	-.89470	.00000	.65530	.00000	-.89470
.903	119.450	8.32900	.19280	-.81950	.13960	.68550	-.79330	.00000	.64840	.00000	-.79330
.903	117.460	8.61140	.61550	-.78230	.26000	.69840	-.68610	.00000	.64240	.00000	-.68610
.903	115.490	8.82080	.97880	-.77560	.32930	.71720	-.56950	.00000	.63740	.00000	-.56950
.903	113.490	9.18010	1.42280	-.77030	.37070	.73040	-.45090	.00000	.63190	.00000	-.45090
.903	111.480	9.33590	1.79640	-.79390	.37260	.74380	-.33080	.00000	.62710	.00000	-.33080
.903	109.610	9.49040	2.21220	-.82200	.40760	.76040	-.21750	.00000	.62200	.00000	-.21750
.903	119.470	8.42850	.25410	-.78990	.20610	.87540	-.80970	.00000	.64770	.00000	-.80970
GRADIENT		-.12107	-.19047	-.00449	-.04216	-.00912	-.05436	.00000	.00286	.00000	-.05436

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TABULATED SOURCE DATA, WSPC TUT 567

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WSPC 567 (F44) TITAN III C SHN (HNETP)

(1807067) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN. ZMRP = 4.6330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 REF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 223.000

RUN NO. 216/ 0 RM/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CP81	CAF
1.197	129.320	6.69610	1.31820	-.85030	.32090	.31500	-1.50710	.00000	.63220	.00000	-1.50710
1.197	127.420	6.99330	1.56710	-.76740	.40750	.33200	-1.41340	.00000	.62940	.00000	-1.41340
1.197	125.420	9.35070	1.98240	-.72460	.47720	.35650	-1.32160	.00000	.62470	.00000	-1.32160
1.197	123.420	9.73600	2.44910	-.68610	.34220	.36560	-1.23160	.00000	.61960	.00000	-1.23160
1.197	121.420	10.09390	2.85080	-.66070	.55030	.36770	-1.12760	.00000	.61600	.00000	-1.12760
1.197	119.420	10.42720	3.18830	-.64480	.52360	.60180	-1.03570	.00000	.61280	.00000	-1.03570
1.197	117.420	10.70780	3.48620	-.71380	.52040	.62190	-.92290	.00000	.61030	.00000	-.92290
1.197	115.430	11.04300	3.99790	-.72800	.51630	.63500	-.81790	.00000	.60570	.00000	-.81790
1.197	113.430	11.33030	4.39470	-.73410	.53540	.63290	-.70080	.00000	.60240	.00000	-.70080
1.197	111.420	11.64120	4.83700	-.72750	.59750	.65460	-.58740	.00000	.59690	.00000	-.58740
1.197	109.590	11.86450	5.24910	-.72860	.66640	.65910	-.48060	.00000	.59550	.00000	-.48060
1.197	119.420	10.41980	3.24790	-.69210	.51580	.61260	-1.02760	.00000	.61200	.00000	-1.02760
GRADIENT		-.16393	-.19984	-.00238	-.01190	-.00744	-.05179	.00000	.00186	.00000	-.05179

RUN NO. 257/ 0 RM/L = 6.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CP81	CAF
1.944	129.440	6.26840	3.52640	-.58640	.29970	.46770	-1.56390	.00000	.59750	.00000	-1.56390
1.944	127.540	6.67110	3.97050	-.60440	.33100	.49000	-1.48390	.00000	.59350	.00000	-1.48390
1.944	125.530	9.07940	4.34950	-.63320	.35210	.51580	-1.39980	.00000	.59080	.00000	-1.39980
1.944	123.520	9.52840	4.65330	-.69610	.41450	.54110	-1.31720	.00000	.58970	.00000	-1.31720
1.944	121.510	9.94140	5.00640	-.73400	.43410	.57350	-1.21510	.00000	.58770	.00000	-1.21510
1.944	119.480	10.33690	5.35730	-.77310	.46910	.60070	-1.10430	.00000	.58590	.00000	-1.10430
1.944	117.500	10.66700	5.74810	-.82910	.49770	.61440	-.99480	.00000	.58330	.00000	-.99480
1.944	115.480	11.04610	6.12780	-.85990	.51870	.64610	-.87670	.00000	.58130	.00000	-.87670
1.944	113.480	11.33760	6.48240	-.88640	.55970	.66120	-.76700	.00000	.57930	.00000	-.76700
1.944	111.480	11.62350	6.79890	-.91700	.56270	.69160	-.64970	.00000	.57740	.00000	-.64970
1.944	109.610	11.91360	7.14160	-.93970	.59370	.71000	-.54350	.00000	.57560	.00000	-.54350
1.944	119.520	10.10330	3.40780	-.77280	.47010	.58600	-1.09790	.00000	.58430	.00000	-1.09790
GRADIENT		-.18479	-.17946	.01889	-.01907	-.01232	-.05208	.00000	.00103	.00000	-.05208



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TABULATED SOURCE DATA, NSPC TWT 507

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NSPC 907 (FA4) TITAN III C SRN (MSETP)

(R07007) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0300 30. IN XMP = 4.0330 IN.  
 LREF = .9000 IN. YMP = .5000 IN.  
 DREF = .9020 IN. ZMP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 225.000

## PARAMETRIC DATA

RUN NO. 203/ 0 RM/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	129.000	7.03320	3.00400	-0.03100	-0.02000	.43190	-1.55390	.00000	.50040	.00000	-1.55390
3.400	127.710	9.00590	4.00020	-0.70140	.01900	.48470	-1.44780	.00000	.50700	.00000	-1.44780
3.400	125.000	8.41970	4.44820	-0.75830	.06130	.49400	-1.34440	.00000	.50400	.00000	-1.34440
3.400	123.000	9.79040	4.00590	-0.80740	.11790	.51200	-1.23930	.00000	.50410	.00000	-1.23930
3.400	121.000	9.19000	5.04130	-0.84400	.17040	.54130	-1.13920	.00000	.50100	.00000	-1.13920
3.400	119.000	9.49970	5.31500	-0.94110	.24730	.58140	-1.04110	.00000	.50070	.00000	-1.04110
3.400	117.000	9.03360	5.55000	-0.99090	.31420	.59090	-.92830	.00000	.57990	.00000	-.92830
3.400	115.000	10.17100	5.06010	-1.03410	.39400	.60410	-.83100	.00000	.57860	.00000	-.83100
3.400	113.000	10.47230	6.21020	-1.07990	.42850	.63070	-.72910	.00000	.57640	.00000	-.72910
3.400	111.000	10.72370	6.60370	-1.12300	.43570	.66640	-.61950	.00000	.57370	.00000	-.61950
3.400	109.000	11.00000	6.93570	-1.14730	.47150	.68810	-.52090	.00000	.57150	.00000	-.52090
3.400	115.000	9.46230	5.29500	-.94030	.23240	.52500	-1.04500	.00000	.50060	.00000	-1.04500
GRADIENT		-.17043	-.15493	.02640	-.02710	-.01275	-.05152	.00000	.00030	.00000	-.05152

RUN NO. 204/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	129.720	7.50730	4.28790	-0.60980	-0.07320	.43030	-1.82370	.00000	.57920	.00000	-1.82370
4.959	127.030	7.89990	4.52200	-0.75090	-0.02920	.45520	-1.51030	.00000	.57900	.00000	-1.51030
4.959	125.010	8.31900	4.80240	-0.82680	.00680	.47500	-1.40510	.00000	.57840	.00000	-1.40510
4.959	123.010	8.71200	5.06070	-0.87590	.04420	.52190	-1.26950	.00000	.57780	.00000	-1.26950
4.959	121.790	9.07700	5.41300	-0.92180	.06350	.55350	-1.15930	.00000	.57600	.00000	-1.15930
4.959	119.700	9.40990	5.67930	-0.98430	.14010	.59070	-1.05480	.00000	.57560	.00000	-1.05480
4.959	117.000	9.83200	5.93030	-1.06090	.20660	.59250	-.94170	.00000	.57510	.00000	-.94170
4.959	115.000	10.17000	6.23100	-1.09310	.28110	.61060	-.82890	.00000	.57390	.00000	-.82890
4.959	113.000	10.50200	6.55790	-1.13730	.31040	.64900	-.71550	.00000	.57240	.00000	-.71550
4.959	111.700	10.81590	6.90840	-1.17810	.37760	.67650	-.62080	.00000	.57060	.00000	-.62080
4.959	109.900	11.03900	7.21010	-1.21090	.37720	.71790	-.52200	.00000	.56800	.00000	-.52200
4.959	119.000	9.41220	5.05010	-.90990	.10230	.55340	-1.03450	.00000	.57550	.00000	-1.03450
GRADIENT		-.10031	-.14700	.02604	-.02465	-.01402	-.05611	.00000	.00051	.00000	-.05611

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TABULATED SOURCE DATA, NHPC TWT 597

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NHPC 597(744) TITAN III C 3RM (NHPCTP)

(R07068) ( 25 APR 74 )

## REFERENCE DATA

## PARAMETRIC DATA

REF = .0300 IN. NHP = 4.6330 IN.  
LREF = .0000 IN. ZHP = .0000 IN.  
BREF = .0000 IN. ZHP = .0000 IN.  
SCALE = .0074

BETA = .000 PHI = 225.000

RUN NO. 82/ 0 RM/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	148.530	4.95430	-1.27220	-4.0760	-33600	.34000	-2.00080	.31270	.68400	-.31270	-2.31330
1.197	148.520	5.93480	-.95080	-.42740	-.40080	.37030	-1.96420	.30700	.67320	-.30700	-2.27130
1.197	144.400	6.25370	-.41720	-.36440	-.76040	.39230	-1.93290	.34340	.65990	-.34340	-2.29830
1.197	142.300	6.86800	.07670	-.40320	-.77160	.42900	-1.90030	.36370	.65010	-.36370	-2.26400
1.197	140.220	7.31470	.13970	-.46730	-.19600	.44960	-1.81820	.33400	.64910	-.33400	-2.15220
1.197	138.110	7.74310	.18140	-.56630	.26420	.47540	-1.73380	.32180	.64830	-.32180	-2.05570
1.197	135.990	8.30500	.62020	-.69540	.56320	.50190	-1.65440	.30470	.64210	-.30470	-1.95910
1.197	133.920	8.85320	.47120	-.75490	.59010	.51430	-1.56830	.30540	.64460	-.30540	-1.87370
1.197	131.870	9.44660	.38030	-.77640	.56280	.54040	-1.49410	.32310	.64600	-.32310	-1.81720
1.197	129.780	9.29170	.32110	-.75030	.54790	.57220	-1.42020	.32860	.64440	-.32860	-1.74880
1.197	127.800	9.58430	.74540	-.75360	.54760	.58100	-1.32370	.31390	.64160	-.31390	-1.63760
1.197	136.100	7.73050	.19970	-.58730	.25920	.48160	-1.72140	.30560	.64820	-.30560	-2.02700
GRADIENT		-.22194	-.08598	.02281	-.06851	-.01169	-.03387	.00050	.00169	-.00050	-.03438

RUN NO. 59/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	149.150	3.92190	1.09070	-.16670	-.04080	.15180	-2.13700	-.01160	.61630	.01160	-2.12540
3.480	147.200	4.20860	1.33730	-.18870	-.02550	.17610	-2.12790	-.02180	.61200	.02180	-2.10680
3.480	145.150	4.75090	1.63630	-.22380	-.01780	.19390	-2.09830	-.03610	.60770	.03610	-2.06210
3.480	143.090	5.12130	1.86610	-.27060	-.02350	.20610	-2.06570	-.05070	.60540	.05070	-2.01490
3.480	141.030	5.94990	2.12960	-.31120	-.03950	.24840	-2.02130	-.05050	.60290	.05050	-1.97080
3.480	138.980	5.93990	2.55920	-.31640	-.03660	.27470	-1.94920	-.03200	.60120	.03200	-1.89710
3.480	136.920	6.34060	2.57920	-.43060	-.06230	.30050	-1.86510	-.05740	.60000	.05740	-1.85760
3.480	134.870	6.75480	2.82060	-.49030	-.08080	.33640	-1.79320	-.06530	.59860	.06530	-1.72780
3.480	132.830	7.17020	3.07620	-.54350	-.10360	.35020	-1.71890	-.06680	.59720	.06680	-1.55200
3.480	130.750	7.58410	3.30450	-.60430	-.08100	.36600	-1.61250	-.09960	.59630	.09960	-1.52280
3.480	128.780	7.95950	3.52650	-.66500	-.06460	.42990	-1.50130	-.11900	.59340	.11900	-1.38220
3.480	138.980	5.93440	2.34580	-.35850	-.02390	.25140	-1.95020	-.06690	.60150	.06690	-1.88120
GRADIENT		-.19873	-.11669	.02319	.00328	-.01338	-.03145	.00416	.00096	-.00416	-.03561

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LABULATED SOURCE DATA, NSPC TWT 307  
NSPC 307 (PAA) TITAN II: C SRN (MSTP)

(R07000) ( 23 APR 74 )

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 PWE = 225.000

REF = .0300 34. IN XREF = 4.0330 IN.  
LREF = .0000 IN. YREF = .0000 IN.  
BREF = .0000 IN. ZREF = .0000 IN.  
SCALE = .0074

RUN NO. 76/ 0 NW/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYNN	CBL	CA	CAB	KCP/L	CP01	CAF
.000	169.990	.40200	-.02110	-.00210	-.04400	.03900	-1.13270	-.09200	.00710	.09200	-1.06070
.000	169.970	.61340	-.05070	-.09320	-.02320	.04700	-1.21810	-.07200	.04700	.07200	-1.14340
.000	169.840	.70040	-.04670	-.08200	-.00780	.03600	-1.30430	-.05900	.00910	.05900	-1.24400
.000	163.640	.91320	-.05770	-.14620	-.20220	.00330	-1.35700	-.04170	.70420	.04170	-1.31320
.000	161.840	1.12300	-.06550	-.22700	-.51770	.10420	-1.38160	-.01650	.76290	.01650	-1.36500
.000	159.500	1.37700	-.10810	-.33190	-.60430	.10750	-1.30850	-.01220	.75000	.01220	-1.37420
.000	157.550	1.60430	-.10520	-.60940	-.94460	.15100	-1.36410	-.01390	.73150	.01390	-1.35020
.000	155.500	1.90400	-.09350	-.10470	-.92100	.18160	-1.32130	.00190	.71200	.00190	-1.34720
.000	153.520	2.20450	-.03360	-.11290	-.89950	.23360	-1.32130	.00900	.69010	.00900	-1.33030
.000	151.470	2.50340	-.07180	-.09620	-.10350	.26070	-1.30900	.01960	.66670	.01960	-1.32470
.000	149.510	2.80030	-.07130	-.04160	-.12050	.26760	-1.29170	.04630	.60300	.04630	-1.35000
.000	159.590	1.30090	-.10390	-.32230	-.70400	.09720	-1.38370	-.01430	.74670	.01430	-1.36970
GRADIENT		-.12247	-.00728	.06189	.06600	-.01339	.00471	-.00610	.00931	.00610	.01002

RUN NO. 77/ 0 NW/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYNN	CBL	CA	CAB	KCP/L	CP01	CAF
.001	169.940	.56590	-.55250	.09450	-.14990	.03160	-1.38190	-.03030	.77500	.03030	-1.34340
.001	167.600	.71230	-.09020	-.03300	-.15290	.05320	-1.45230	-.02360	.77590	.02360	-1.42850
.001	165.540	.90020	-.06320	-.06430	-.24750	.07950	-1.51520	-.00080	.75780	.00080	-1.50630
.001	163.520	1.09260	-.07260	-.10140	-.37760	.09130	-1.56840	.02750	.74100	.02750	-1.59600
.001	161.480	1.41060	-.07610	-.26750	-.54270	.13060	-1.64570	.06970	.71840	.06970	-1.71340
.001	159.400	1.71950	-.05780	-.59370	-.61360	.16310	-1.60990	.06130	.71460	.06130	-1.73120
.001	157.200	2.20150	-.12430	-.66370	-.85690	.11180	-1.62410	.11340	.72110	.11340	-1.73960
.001	155.140	2.77120	-.15050	1.05010	-.71210	.12070	-1.64940	.13100	.72020	.13100	-1.70040
.001	153.120	3.12060	-.15680	.90060	-.129470	.16260	-1.61600	.13950	.71510	.13950	-1.73460
.001	151.020	3.50760	-.163070	.57390	-.159850	.22710	-1.59720	.14910	.71030	.14910	-1.74640
.001	149.020	3.90240	-.175790	.41960	-.180650	.25740	-1.56480	.15160	.70850	.15160	-1.71630
.001	159.420	1.67030	-.02560	-.51240	-.76750	.15220	-1.63290	.06200	.71300	.06200	-1.69490
GRADIENT		-.17065	.06239	-.04032	.07607	-.00934	.00846	-.01029	.00324	.01029	.01076

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DATE 11 JUL 74

TABULATED SOURCE DATA, WSPC TWT 507

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WSPC 907 (P44) TITAN III C 30M (MSETP)

( 23 APR 74 )

## REFERENCE DATA

SREF = .0300 IN. INP = 4.0330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 BREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 76/ 0 RM/L = 0.63 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CHN	CLMN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.197	109.430	.79170	-.81070	-.14950	-.01270	.06370	-1.91330	.12000	.76110	-.12000	-2.04420
1.197	107.470	1.00350	-.90020	-.13060	.09040	.09300	-1.96320	.13140	.76300	-.13140	-2.09460
1.197	105.340	1.30570	-.94010	-.10140	.05670	.11660	-1.99330	.13900	.74350	-.13900	-2.13230
1.197	103.320	1.02770	-1.10060	-.20460	-.01400	.15000	-2.02810	.16600	.73750	-.16600	-2.19490
1.197	101.220	1.98550	-1.20520	-.25310	-.03260	.17850	-2.05240	.19540	.73340	-.19540	-2.23760
1.197	109.120	2.30200	-1.46750	-.25320	-.00910	.21040	-2.08290	.21120	.72940	-.21120	-2.27420
1.197	107.010	2.02610	-1.57630	-.32710	-.08200	.23410	-2.07020	.22710	.72210	-.22710	-2.29730
1.197	104.890	3.31280	-1.61750	-.35820	-.13230	.25450	-2.07580	.25310	.71350	-.25310	-2.32090
1.197	102.780	3.01700	-1.60070	-.36950	-.20690	.28370	-2.05850	.26350	.70460	-.26350	-2.32200
1.197	100.660	4.36370	-1.51470	-.36360	-.32260	.30990	-2.03550	.27350	.69320	-.27350	-2.30900
1.197	108.620	4.94470	-1.31520	-.36620	-.32590	.34060	-2.00310	.28370	.68310	-.28370	-2.28680
1.197	106.110	2.42440	-1.45190	-.25410	-.01470	.20830	-2.05020	.20730	.72730	-.20730	-2.26560
1.197	GRADIENT	-.20012	.03543	.01378	.01975	-.01312	.00448	-.00839	.00410	.00839	.01267

RUN NO. 117/ 0 RM/L = 0.95 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CHN	CLMN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.904	109.370	.82900	-.75190	.09080	.22850	.04340	-1.88670	.04010	.76630	-.04010	-1.92690
1.904	107.400	1.09790	-.73420	.10410	.27210	.09470	-1.91180	.06040	.73840	-.06040	-1.97230
1.904	105.340	1.43090	-.67780	.03350	.17210	.07070	-1.94130	.07500	.71120	-.07500	-2.01640
1.904	103.230	1.01800	-.55420	-.06670	.01840	.09980	-1.97550	.09010	.69010	-.09010	-2.06560
1.904	101.160	2.21430	-.46900	-.12700	.01610	.09620	-1.99830	.10700	.67830	-.10700	-2.10330
1.904	109.050	2.02900	-.29710	-.10140	-.06150	.11900	-2.02490	.12590	.66300	-.12590	-2.15060
1.904	106.940	3.08210	-.12950	-.21210	-.06640	.12700	-2.04830	.13270	.65600	-.13270	-2.18130
1.904	104.860	3.48980	.06990	-.17970	-.01300	.14550	-2.04210	.13400	.64890	-.13400	-2.17610
1.904	102.780	3.93020	.30850	-.15490	-.01500	.16370	-2.04400	.14390	.64160	-.14390	-2.18800
1.904	100.670	4.36930	.56840	-.19040	-.04490	.17980	-2.03220	.14870	.63310	-.14870	-2.18100
1.904	108.600	4.91620	.81210	-.23660	-.03320	.20600	-2.01820	.14490	.63010	-.14490	-2.16310
1.904	GRADIENT	-.19555	-.07703	.01810	.01432	-.00754	.00711	-.00522	.00613	.00522	.01233



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## TABULATED SOURCE DATA, NSFC TWT 507

PAGE 119

NSFC 507 (P44) TITAN 111 C 3RM (MDETP)

(1897069) ( 25 APR 74 )

## REFERENCE DATA

REF = .6308 56. IN XREF = 4.6338 IN.  
 LREF = .9000 IN. YREF = .0000 IN.  
 ZREF = .9000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 223.000

RUN NO. 56/ 0 RM/L = 0.32 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CHN	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	109.540	.69200	-.19350	.03750	-.03500	.02000	-1.09460	.05500	.60720	-.03500	-1.95420
3.400	107.810	.90750	-.12710	.01250	-.06340	.03050	-1.93510	.05650	.64920	-.05650	-1.99170
3.400	105.570	1.10000	-.15090	-.01670	-.11560	.03990	-1.97100	.05250	.66790	-.05250	-2.02350
3.400	103.320	1.42500	-.11180	-.04040	-.16470	.04510	-2.00180	.05110	.66140	-.05110	-2.05890
3.400	101.400	1.71870	-.06990	-.04040	-.13090	.05740	-2.04900	.04600	.65660	-.04600	-2.09390
3.400	109.430	2.03690	.03990	-.04710	-.13060	.04910	-2.09960	.02350	.64900	-.02350	-2.11320
3.400	107.380	2.36630	.17020	-.04700	-.09330	.04970	-2.11550	-.00070	.64240	.00070	-2.11470
3.400	105.330	2.72100	.36890	-.07570	-.09300	.08240	-2.14160	-.02210	.63430	.02210	-2.11950
3.400	103.280	3.06740	.58770	-.11090	-.05070	.09730	-2.14400	-.04220	.62740	.04220	-2.10180
3.400	101.220	3.49030	.82030	-.12600	-.03230	.11300	-2.14220	-.06240	.62160	.06240	-2.07970
3.400	109.250	3.80440	1.05750	-.16860	-.02820	.12120	-2.13780	-.07500	.61700	.07500	-2.06190
3.400	107.430	2.03780	.04060	-.04030	-.14000	.04990	-2.09890	.02090	.64900	-.02090	-2.11790
3.400	105.430	2.03723	-.06008	.00871	-.00243	-.00461	.01298	.00719	.00326	-.00719	.00586

RUN NO. 57/ 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CHN	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.950	109.430	.94500	-.12370	.01410	-.17820	.00280	-1.09460	.01900	.60070	-.01900	-1.91370
4.950	107.720	.71490	-.13020	.01400	-.17530	.04400	-1.95570	.02070	.67450	-.02070	-1.97650
4.950	105.700	.94220	-.07650	.00230	-.23010	.04930	-2.01150	.02020	.66180	-.02020	-2.03190
4.950	103.680	1.17020	-.11260	.00310	-.20030	.05500	-2.04900	.01120	.66370	-.01120	-2.05920
4.950	101.460	1.45520	-.05920	-.00960	-.22850	.01640	-2.08940	-.00590	.65660	.00590	-2.08340
4.950	109.640	1.73690	.05540	-.03910	-.22680	.05820	-2.12180	-.01870	.64740	.01870	-2.10300
4.950	107.600	2.07940	.20400	-.02660	-.17540	.06110	-2.16630	-.03560	.63910	.03560	-2.13120
4.950	105.600	2.41920	.44340	-.04400	-.13940	.07400	-2.19820	-.04820	.62950	.04820	-2.14990
4.950	103.500	2.81310	.67860	-.08940	-.13340	.10710	-2.20920	-.05800	.62090	.05800	-2.14380
4.950	101.360	3.13220	.94700	-.10560	-.15810	.12560	-2.18880	-.07590	.61350	.07590	-2.11280
4.950	109.610	3.80770	1.21440	-.12230	-.13900	.11530	-2.22430	-.08000	.60600	.08000	-2.13820
4.950	107.840	1.76830	.00930	-.03970	-.19840	.00610	-2.13220	-.01600	.65080	-.01600	-2.11820
4.950	105.840	2.03722	-.06621	.00700	-.00325	-.00517	.01596	.00366	.00366	-.00366	.01008

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TABULATED SOURCE DATA, MOPC TWT 507

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MOPC 507 (F44) TITAN III C 8HR (MDETP)

12070700 ( 23 APR 74 )

## REFERENCE DATA

DREF = .0369 94. IN TREF = 4.6338 IN.  
 LREF = .9908 IN. TREF = .9908 IN.  
 DREF = .9908 IN. TREF = .9908 IN.  
 SCALE = .0074

BETA = .000 PHI = 225.000

## PARAMETRIC DATA

RUN NO. 79/ 0 RM/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLIM	CTH	CTHM	CBL	CA	CAB	KCP/L	CPB1	CAF
.995	100.110	.44230	.07830	.04760	.01510	-.01850	-.16340	.69790	.16340	-.65480
.995	100.200	.32090	.07960	.07080	-.01100	-.79310	-.16980	.97170	.16980	-.62330
.995	100.100	.22420	.00640	.09240	-.01430	-.79420	-.16130	1.04740	.16130	-.63280
.995	104.170	.18230	.00430	.07120	-.03390	-.84600	-.15680	1.06030	.15680	-.60910
.995	102.160	.07730	.03910	.05990	-.01150	-.88190	-.15320	1.23780	.15320	-.72880
.995	100.140	.04200	.00170	.09960	.00270	-.92830	-.14400	1.2420	.14400	-.70230
.995	170.100	.15140	.01430	.09060	.00020	-.94130	-.14240	.72740	.14240	-.75880
.995	176.110	.18230	.02340	.00940	-.01810	-.98150	-.14980	.63220	.14980	-.83190
.995	174.110	.26200	.04110	.01230	-.01910	-.10410	-.14810	.86390	.14810	-.89330
.995	172.070	.37170	.01370	.04890	-.00050	-.10780	-.14260	.86740	.14260	-.93610
.995	170.130	.49070	.02300	.01270	.03920	-.11130	-.12950	.86670	.12950	-.98420
.995	180.140	.02170	.10730	.00000	-.03960	-.92820	-.14420	-.32490	.14420	-.78400
.995	GRADIENT	-.04435	.00227	-.00007	-.00041	.01673	-.00155	.00356	.00155	.01628

RUN NO. 80/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLIM	CTH	CTHM	CBL	CA	CAB	KCP/L	CPB1	CAF
.901	190.150	-.92440	-.02430	.03360	.03370	-.98890	-.01500	.73370	.01500	-.97340
.901	180.230	-.39480	-.04950	-.09010	.03570	-.96110	-.02840	.75000	.02840	-.93270
.901	186.200	-.20440	.00810	-.15100	.02790	-.95710	-.05070	.79900	.05070	-.95830
.901	184.180	-.15410	-.01080	-.15480	.02380	-.96830	-.07260	.91990	.07260	-.89560
.901	182.160	-.03490	-.00310	-.17200	.02470	-.10260	-.09720	1.73320	.09720	-.92360
.901	180.130	.03970	.00510	.16730	.03200	-.10560	-.11990	.32500	.11990	-.93630
.901	178.090	.13020	.00170	.13920	.04040	-.10820	-.11590	.70170	.11590	-.96850
.901	176.080	.22420	-.01520	-.09120	.04750	-.11300	-.11580	.79490	.11580	-.10140
.901	174.050	.34290	-.03320	-.13860	.04240	-.11870	-.10790	.77410	.10790	-.10790
.901	172.020	.44350	-.00550	-.20670	.05530	-.12670	-.10060	.78420	.10060	-.11660
.901	170.070	.59060	.03690	-.15940	.05060	-.13320	-.08810	.77370	.08810	-.12490
.901	180.130	.08180	.12730	-.17030	.03630	-.10480	-.11680	.45380	.11680	-.91120
.901	GRADIENT	-.05237	-.00239	.00551	-.00131	.01823	.00419	.00504	.00504	.01454

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TABULATED SOURCE DATA, NSFC TWT 507

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NSFC 507 (FA4) TITAN III C 3RM (MDETP)

(097070) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN. INP = 4.0330 IN.  
REF = .0000 IN. INP = .0000 IN.  
REF = .0000 IN. INP = .0000 IN.  
SCALE = .0074

BETA = .000 PHI = 223.000

## PARAMETRIC DATA

RUN NO. 01/ 0 RM/L = 0.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.201	190.250	-.63400	.04500	.07690	-.12100	.05100	-1.54730	.15200	.82030	-.15200	-1.69930
1.201	190.310	-.48030	.76790	.08230	-.17090	.02010	-1.54280	.13900	.85300	-.13900	-1.69120
1.201	190.240	-.32770	.64730	.06840	-.20330	.00410	-1.53080	.10440	.90140	-.10440	-1.69720
1.201	194.220	-.21490	.45550	.04120	-.22090	-.00120	-1.57240	.10090	.91960	-.10090	-1.67340
1.201	182.170	-.09610	.25970	-.01640	-.20500	.00930	-1.59680	.10730	1.03320	-.10730	-1.70420
1.201	190.130	.03410	.09200	-.03280	-.26430	.01480	-1.62130	.10940	.43440	-.10940	-1.73090
1.201	179.080	.17670	-.12370	-.07420	-.22080	.01490	-1.66370	.11110	.74010	-.11110	-1.77490
1.201	174.040	.31070	-.30390	-.07710	-.18190	.03700	-1.71510	.11800	.77530	-.11800	-1.83370
1.201	174.010	.46310	-.49780	-.08890	-.15930	.05830	-1.75590	.12590	.78750	-.12590	-1.89190
1.201	171.930	.64890	-.69300	-.13880	-.13920	.07590	-1.84880	.14080	.78660	-.14080	-1.98970
1.201	169.960	.83760	-.83050	-.17300	-.03500	.08600	-1.89880	.14900	.77690	-.14900	-2.04190
1.201	190.130	.04270	.06530	-.04120	-.28370	.02230	-1.61010	.09800	.51970	-.09800	-1.70820
1.201	GRADIENT	-.06943	.08731	.01346	-.00359	-.00330	.01763	-.00027	.00629	.00027	.01790

RUN NO. 110/ 0 RM/L = 0.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.957	190.130	-.68280	.70080	.17020	.19390	.01370	-1.63080	.04460	.78130	-.04460	-1.69350
1.957	190.130	-.68760	.69220	.16600	.20360	.01530	-1.65420	.04240	.78270	-.04240	-1.69670
1.957	190.100	-.50770	.61870	.16220	.12900	.00840	-1.63770	.03490	.80570	-.03490	-1.67220
1.957	186.150	-.34770	.49540	.13200	.04780	-.00190	-1.64190	.890	.83180	-.02890	-1.67080
1.957	184.090	-.23080	.35650	.09390	.01870	-.01030	-1.66730	.02040	.84690	-.02040	-1.69770
1.957	182.080	-.11400	.19240	.03280	-.00990	.00830	-1.68140	.01310	.86510	-.01310	-1.69460
1.957	179.990	.02040	-.01540	.02970	.02190	.00690	-1.69510	.01360	.74710	-.01360	-1.70870
1.957	177.940	.12060	-.24280	.00370	.00660	.01720	-1.71830	.01390	.90630	-.01390	-1.73230
1.957	175.890	.23010	-.45310	.01100	.03690	.02260	-1.74170	.01110	.88180	-.01110	-1.75280
1.957	173.840	.40300	-.64210	.01290	.09210	.03540	-1.78260	.01020	.83310	-.01020	-1.79290
1.957	171.790	.60060	-.73330	.03200	.11020	.04600	-1.82720	.02000	.80600	-.02000	-1.84720
1.957	169.800	.82940	-.76950	.09310	.19180	.03470	-1.86580	.03570	.78950	-.03570	-1.90160
1.957	179.990	.02920	-.01160	.03040	.00680	.01340	-1.65830	.01200	.70180	-.01200	-1.67030
1.957	GRADIENT	-.06863	.07966	.00724	.00206	-.00205	.01002	.00100	-.00100	.00100	.00901

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## TABULATED SOURCE DATA, NSFC TWT 507

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NSFC 507 (744) TITAN III C 8PH (MNETP)

(1897078) ( 23 APR 74 )

## REFERENCE DATA

REF = .6300 36. IN XIMP = 4.0330 IN.  
 LREF = .9000 IN. YIMP = .0000 IN.  
 REF = .9000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 55/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	190.130	-.59000	-.21030	.11330	-.02310	.01830	-1.69270	.03690	.69670	-.03630	-1.74920
3.400	180.230	-.43510	-.20240	.12170	-.02090	.01070	-1.70020	.03300	.72780	-.03300	-1.75330
3.400	180.200	-.30800	-.20310	.10360	-.03300	-.00430	-1.69950	.04360	.76830	-.04360	-1.74330
3.400	184.190	-.22140	-.23160	.07940	-.00730	-.00020	-1.70500	.03020	.76390	-.03020	-1.74330
3.400	182.190	-.12000	.15770	.08970	-.12890	.00040	-1.72200	.03590	.81790	-.03590	-1.73800
3.400	180.130	-.04470	.04450	.09160	-.09840	-.01250	-1.74070	.03630	.77760	-.03630	-1.77700
3.400	178.120	.00230	-.04370	.04730	-.08780	-.00170	-1.75980	.03320	.78010	-.03320	-1.79310
3.400	176.100	.17280	-.17390	.05370	-.09130	-.00130	-1.78110	.03650	.78050	-.03650	-1.81770
3.400	174.090	.28730	-.21260	.05610	-.06430	.00000	-1.81610	.04230	.74320	-.04230	-1.85850
3.400	172.040	.49220	-.22410	.05020	-.09410	.02150	-1.85670	.03130	.71420	-.05130	-1.90800
3.400	170.090	.65610	-.17390	.05030	-.04820	.02820	-1.89220	.06000	.68500	-.06000	-1.93230
3.400	160.130	-.04410	.04440	.05850	-.11320	-.00740	-1.73960	.03680	.77890	-.03680	-1.77660
GRADIENT		-.03663	.02898	.60372	.00116	-.00046	.00977	-.00000	.00104	.00006	.00977

RUN NO. 56/ 0 RM/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	190.080	-.52970	.25070	.11800	-.13600	.00480	-1.65910	.01650	.71140	-.01650	-1.87560
4.959	186.170	-.35020	.31010	.14890	-.15690	.00420	-1.65510	.01500	.76160	-.01500	-1.87010
4.959	186.160	-.27210	.32240	.13290	-.16310	.00530	-1.66570	.01320	.80140	-.01320	-1.87890
4.959	184.160	-.21090	.25630	.10620	-.19630	-.00730	-1.67290	.01270	.80110	-.01270	-1.88560
4.959	182.150	-.10360	.19120	.09280	-.17460	-.02530	-1.70030	.01340	.88510	-.01340	-1.72170
4.959	180.130	-.10390	.12860	.09390	-.18950	.00090	-1.71250	.01290	.80810	-.01290	-1.72550
4.959	178.130	.00710	.00090	.09580	-.15810	.00690	-1.73660	.01170	.84960	-.01170	-1.74830
4.959	176.120	.15300	-.01710	.09700	-.17400	.00020	-1.76280	.01140	.66560	-.01140	-1.77420
4.959	174.130	.23730	-.06690	.08390	-.18160	.00960	-1.79650	.01340	.68720	-.01340	-1.80990
4.959	172.100	.30040	-.11660	.09990	-.18830	.04320	-1.81990	.01470	.69030	-.01070	-1.83460
4.959	170.170	.32300	-.13500	.08530	-.13790	-.01050	-1.86060	.01750	.68420	-.01750	-1.87610
4.959	160.140	.01090	.09320	.09480	-.17510	-.03310	-1.72310	.01320	-.44760	-.01320	-1.73630
GRADIENT		-.04839	.02521	.00234	.00011	-.00064	.01031	-.00000	.00379	.00003	.01031



TABULATED SOURCE DATA, NSFC TWT 567

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(R07071) ( 23 APR 74 )

NSFC 567 (F44) TITAN III C SRM (M0ETP)

PARAMETRIC DATA

REFERENCE DATA

REF = .0360 IN. INRIP = 4.6330 IN.  
 LREF = .0000 IN. TMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

DELTA = .000 PHI = 202.500

RUN NO. 105/ 0 RM/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.198	-10.140	-95340	-1.25010	.02040	.03180	.03180	1.21200	.21000	.90	-.21000	1.00200
1.198	-8.190	-76300	-.90790	.02340	.03340	.03340	1.19100	.19420	-.30100	-.19420	.99600
1.198	-6.150	-.57300	-.56960	.01400	-.24360	.03750	1.17410	.19050	.52570	-.19050	.98360
1.198	-4.110	-.43690	-.27220	.00360	.03450	.03450	1.15970	.19450	.97300	-.19450	.96310
1.198	-2.070	-.29410	.01340	-.00250	-.17520	.03390	1.15390	.18370	.65750	-.18370	.97020
1.198	.010	-.15150	.30530	.01420	-.16410	.03180	1.14100	.17060	.90970	-.17060	.97120
1.198	2.020	.00070	.62410	.02560	-.17760	.01730	1.13910	.16640	1.06960	-.16640	.97280
1.198	4.070	.12500	.95610	.03160	-.19010	.01170	1.14660	.16770	-.31820	-.16770	.96970
1.198	6.090	.24680	1.28260	.06510	-.22900	-.00560	1.10020	.19040	-.00590	-.19040	.99510
1.198	8.100	.40840	1.63810	.08950	-.23480	-.00940	1.20150	.20640	.13770	-.20640	.99310
1.198	10.110	.59690	2.00810	.11330	-.31080	-.01660	1.21450	.21740	.22570	-.21740	.96130
1.198	-.010	-.14240	.29510	.01910	-.17010	.02220	1.12600	.16470	.91360	-.16470	.96130
GRADIENT		.04956	.15016	.00411	.00041	-.00304	-.00201	-.00347	-.06601	.00347	.00146

RUN NO. 26/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	-10.220	-.86340	-1.67990	-.04120	.02440	.02440	.74570	.06960	.40320	-.06960	.67610
3.480	-8.280	-.65930	-1.35900	-.04330	-.07090	.01560	.73330	.06510	.39060	-.06510	.66820
3.480	-6.240	-.44300	-.96690	-.03300	-.06310	.01410	.72380	.05840	.36960	-.05840	.66530
3.480	-4.200	-.28940	-.62100	-.03620	-.06930	.01700	.71120	.05300	.37990	-.05300	.65820
3.480	-2.160	-.13710	-.24140	-.02740	-.08490	.00600	.70110	.04930	.42670	-.04930	.65180
3.480	.130	.00090	.07120	-.00400	-.04810	-.00190	.70950	.04900	-.9.39340	-.04900	.66440
3.480	1.890	.11640	.39480	-.00750	-.06500	-.00380	.72290	.04870	.22210	-.04870	.67410
3.480	3.920	.25720	.73720	-.01060	-.07000	-.00440	.74130	.05250	.28870	-.05250	.68900
3.480	5.940	.43570	1.09330	-.01270	-.05170	-.02160	.76150	.05640	.371	-.05640	.70500
3.480	8.000	.65160	1.40840	-.00770	-.04230	-.02380	.76920	.06160	.371	-.06160	.70730
3.480	9.970	.90690	1.75850	-.00740	.01790	-.02380	.79000	.06610	.40690	-.06610	.72390
3.480	-.130	.00150	.07160	-.00390	-.04250	.02080	.71070	.04450	-.5.25790	-.04450	.66610
GRADIENT		.04636	.16524	.00351	.00066	-.00259	.00404	-.00010	-.02043	.00010	.00413

REPRODUCIBILITY OF THE  
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NSPC 507(FAA) TITAN III C SQM (HSETP)

(H97072) 1 23 APR 74 )

## REFERENCE DATA

REF = .0300 SQ. IN XIMP = 4.0330 IN.  
 LREF = .0000 IN. YIMP = .0000 IN.  
 REF = .0000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 202.500

RUN NO. 104/ 0 RM/L = 0.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.192	10.000	.59030	1.90510	.09570	-.02920	1.23020	.25090	.25090	.25990	-.25090	.97930
1.192	12.010	.79930	2.35530	.12410	-.30760	1.22070	.26110	.26110	.27850	-.26110	.96700
1.192	14.000	1.00490	2.77410	.14480	-.37960	1.21000	.26360	.26360	.32100	-.26360	.95620
1.192	16.740	1.30030	3.33230	.09060	-.39970	1.20090	.27440	.27440	.34770	-.27440	.93430
1.192	18.040	1.73200	3.94300	-.02000	-.32260	1.19000	.27680	.27680	.36660	-.27680	.91320
1.192	20.970	2.17160	4.63470	-.10140	-.35120	1.17310	.30170	.30170	.30140	-.30170	.87130
1.192	23.090	2.64070	5.30510	-.22630	-.42040	1.15090	.29240	.29240	.39340	-.29240	.85040
1.192	25.210	3.12000	6.17770	-.22550	-.40790	1.13420	.31210	.31210	.40140	-.31210	.82200
1.192	27.320	3.64970	7.03300	-.05600	-.37960	1.12000	.32650	.32650	.40720	-.32650	.78340
1.192	29.490	4.22120	7.93300	.10990	-.63000	1.09220	.35270	.35270	.41360	-.35270	.73940
1.192	31.530	4.84820	8.75290	.34010	-.66190	1.07220	.38530	.38530	.42390	-.38530	.68690
1.192	20.970	2.15050	4.67920	-.16110	-.35470	1.13820	.27980	.27980	.36060	-.27980	.87030
GRADIENT		.20444	.32957	-.00012	-.01664	-.00506	.00371	.00371	.00628	-.00371	-.01375

RUN NO. 27/ 0 RM/L = 0.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPBI	CAF
3.400	10.310	.91920	1.77470	-.00710	.03950	-.04040	.80000	.06640	.40710	-.06640	.74130
3.400	12.430	1.16090	2.08250	-.00220	.02000	-.05350	.81770	.06900	.42440	-.06900	.74060
3.400	14.306	1.49160	2.42660	.02230	.05070	-.05120	.84530	.07050	.43990	-.07050	.77470
3.400	16.550	1.75610	2.75580	.04620	.03200	-.06370	.87700	.07170	.45290	-.07170	.80330
3.400	18.590	2.00460	3.10220	.06980	-.00050	-.09100	.90440	.07150	.46310	-.07150	.83200
3.400	20.660	2.44130	3.49720	.08160	-.00070	-.09360	.93340	.07040	.47020	-.07040	.86300
3.400	22.720	2.83420	3.87550	.10220	.06800	-.10460	.96690	.06900	.47840	-.06900	.89760
3.400	24.770	3.20310	4.22180	.09590	.08440	-.11480	.99060	.06960	.48470	-.06960	.92100
3.400	26.810	3.57370	4.59760	.08300	.08400	-.12420	1.01750	.06500	.48860	-.06500	.95250
3.400	28.900	3.90120	5.03030	.08020	.03140	-.12590	1.04810	.06070	.49160	-.06070	.98730
3.400	30.070	4.35190	5.38200	.09940	.00210	-.13190	1.07530	.05590	.49500	-.05590	1.01900
3.400	20.950	2.42840	3.45850	.08300	.04170	-.08430	.93960	.07040	.47120	-.07040	.86920
GRADIENT		.17096	.17791	.00356	.00040	-.00467	.01362	-.00049	.00414	.00049	.01411



DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 987

(197074) ( 23 APR 74 )

NSPC 987 (F44) TITAN III C 888 (MBETP)

PARAMETRIC DATA

REF = 4388 50. IN XIMP = 4.4338 IN.  
 LREF = 9088 IN. YIMP = .0000 IN.  
 SREF = 9088 IN. ZIMP = .0000 IN.  
 SCALE = .9074

DELTA = .000 PHI = 202.988

RUN NO. 200/ 0 RM/L = 0.02 GRADIENT INTERVAL = -5.00/ 5.00

WACN	ALPHA	CNN	CLNN	CTN	CTNN	COL	CA	CAB	XCP/L	CPB1	CAF
1.197	50.870	9.22880	13.18250	.22920	-.20780	-.13730	.82990	.00000	.47100	.00000	.02990
1.197	52.760	9.61320	13.39320	.17410	-.24820	-.14880	.78140	.00000	.47930	.00000	.78140
1.197	54.770	9.99950	13.67040	.12680	-.30480	-.14650	.73430	.00000	.47640	.00000	.73430
1.197	56.780	10.39690	13.97120	.11090	-.43820	-.14190	.72350	.00000	.48320	.00000	.72350
1.197	58.780	10.83320	13.99140	.07740	-.48410	-.13290	.68300	.00000	.48800	.00000	.68300
1.197	60.800	11.23280	14.11150	.04430	-.46860	-.14820	.64150	.00000	.49250	.00000	.64150
1.197	62.800	11.59960	14.17280	.02960	-.46890	-.13290	.60980	.00000	.49670	.00000	.60980
1.197	64.800	11.91300	14.11820	.03390	-.44510	-.15510	.57960	.00000	.49020	.00000	.57960
1.197	66.770	11.99680	14.02010	.05870	-.37510	-.18210	.54820	.00000	.50360	.00000	.54820
1.197	68.770	12.13210	13.88100	.06290	-.29800	-.16470	.53030	.00000	.50880	.00000	.53030
1.197	70.800	12.31490	13.59810	.05820	-.27020	-.18290	.49200	.00000	.51180	.00000	.49200
1.197	80.800	11.18610	13.99190	.04420	-.49110	-.15770	.64240	.00000	.49320	.00000	.64240
GRADIENT		.16021	.02351	-.00785	-.00332	-.00121	-.01640	.00000	.00208	.00000	-.01640

RUN NO. 207/ 0 RM/L = 0.34 GRADIENT INTERVAL = -5.00/ 5.00

WACN	ALPHA	CNN	CLNN	CTN	CTNN	COL	CA	CAB	XCP/L	CPB1	CAF
3.488	50.510	7.90780	8.53880	.13470	-.15280	-.13930	1.16480	.00000	.51480	.00000	1.16480
3.488	52.420	8.27140	8.78250	.13470	-.16040	-.14200	1.13430	.00000	.51710	.00000	1.13430
3.488	54.430	8.62710	9.02160	.16750	-.20090	-.14690	1.09480	.00000	.51910	.00000	1.09480
3.488	56.440	8.99970	9.37130	.17940	-.22730	-.14340	1.06470	.00000	.51970	.00000	1.06470
3.488	58.450	9.35950	9.73680	.19000	-.27220	-.13760	1.02290	.00000	.51930	.00000	1.02290
3.488	60.480	9.68010	9.96470	.20930	-.30040	-.15350	.98170	.00000	.52090	.00000	.98170
3.488	62.480	9.89480	10.02970	.24870	-.31400	-.15940	.94190	.00000	.52320	.00000	.94190
3.488	64.480	10.11370	10.07200	.24890	-.36980	-.18290	.89780	.00000	.52540	.00000	.89780
3.488	66.480	10.34080	10.09090	.29950	-.39910	-.18100	.85210	.00000	.52800	.00000	.85210
3.488	68.480	10.5740	10.07490	.29620	-.49550	-.18900	.80100	.00000	.53070	.00000	.80100
3.488	70.508	10.79590	10.14690	.31230	-.43890	-.19030	.77270	.00000	.53240	.00000	.77270
3.488	80.480	9.61910	9.81970	.20220	-.32710	-.15270	.97310	.00000	.52100	.00000	.97310
GRADIENT		.14323	.08253	.00945	-.01876	-.00122	-.02020	.00000	.00584	.00690	-.02020



DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TVT 507

PAGE 128

NSPC 587 (F44) TITAN III C 82M (INSTR)

(1807073) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN. XREF = 4.0330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 REF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 202.900

RUN NO. 281/ 0 RM/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	CMN	CLWN	CTN	CTWN	CBL	CA	CAB	ACP/L	CPB1	CAF
1.198	70.820	12.23730	13.32010	.04460	-.30120	-.18320	.59330	.00000	.51370	.00000	.59330
1.198	72.710	12.45940	13.14890	.04280	-.26910	-.19210	.59090	.00000	.51790	.00000	.59090
1.198	74.600	12.68090	12.91610	.04090	-.24130	-.19630	.59370	.00000	.52340	.00000	.59370
1.198	76.440	12.89840	12.59000	.04730	-.27840	-.18320	.48860	.00000	.52800	.00000	.48860
1.198	78.620	12.89430	12.00670	.03610	-.24960	-.16420	.46330	.00000	.51360	.00000	.46330
1.198	80.620	13.01730	11.72860	.03270	-.24220	-.16790	.42350	.00000	.53740	.00000	.42350
1.198	82.610	13.13080	11.51080	.03330	-.22310	-.17960	.39020	.00000	.54050	.00000	.39020
1.198	84.590	13.23360	11.23130	.04060	-.24960	-.19810	.37070	.00000	.54490	.00000	.37070
1.198	86.550	13.32890	10.90640	.04830	-.23300	-.20530	.36000	.00000	.54610	.00000	.36000
1.198	88.550	13.39650	10.61540	.06070	-.22190	-.19370	.32700	.00000	.55120	.00000	.32700
1.198	90.440	13.42390	10.34470	.06950	-.22070	-.20250	.27030	.00000	.55390	.00000	.27030
1.198	92.620	12.98010	11.89400	.04180	-.24040	-.16580	.42600	.00000	.53730	.00000	.42600
GRADIENT		.05971	-.15564	.00129	.00347	-.00273	-.01369	.00000	.00207	.00000	-.01369

RUN NO. 286/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	CMN	CLWN	CTN	CTWN	CBL	CA	CAB	ACP/L	CPB1	CAF
3.480	70.920	10.73800	10.05360	.29340	-.46370	-.16090	.83420	.00000	.53360	.00000	.83420
3.480	72.400	10.92160	9.94040	.30510	-.40740	-.13760	.79350	.00000	.53630	.00000	.79350
3.480	74.410	11.09510	9.86140	.30200	-.42280	-.14490	.72280	.00000	.53900	.00000	.72280
3.480	76.410	11.26530	9.90600	.30410	-.41540	-.13300	.65470	.00000	.54020	.00000	.65470
3.480	78.430	11.49080	9.94350	.31220	-.44380	-.14710	.58340	.00000	.54190	.00000	.58340
3.480	80.430	11.92430	9.70250	.33390	-.44690	-.16020	.50930	.00000	.54400	.00000	.50930
3.480	82.400	11.86790	9.70980	.34420	-.41860	-.17000	.43280	.00000	.54620	.00000	.43280
3.480	84.420	11.83550	9.71080	.33320	-.44250	-.12560	.35910	.00000	.54780	.00000	.35910
3.480	86.400	11.94760	9.62610	.33840	-.37290	-.18960	.27520	.00000	.54950	.00000	.27520
3.480	88.410	11.57370	9.56170	.32820	-.34930	-.18540	.19060	.00000	.55040	.00000	.19060
3.480	90.380	12.02350	9.62820	.32200	-.33650	-.17280	.12600	.00000	.55010	.00000	.12600
3.480	92.410	11.30410	9.78780	.33400	-.44100	-.14930	.51780	.00000	.54400	.00000	.51780
GRADIENT		.06644	-.02271	.00199	.00458	-.00180	-.03654	.00000	.00086	.00000	-.03654



DATE 11 JUL 74

TABULATED SOURCE DATA, MOPC TWT 507

MOPC 507 (P44) TITAN III C 0RM (MNETP)

(1807076) ( 23 APR 74 )

PARAMETRIC DATA

REFERENCE DATA

REF = .0300 00. 1M XREF = 4.0330 1M.  
 LREF = .9000 1M. YREF = .0000 1M.  
 BREF = .9000 1M. ZREF = .0000 1M.  
 SCALE = .0074

BETA = .000 PMI = 202.300

RUN NO. 214/ 0 RM/L = 0.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CTH	CYWH	CBL	CA	CAB	XCP/L	CPH	CAF
1.104	109.400	11.56000	5.51210	.42010	-.02330	-.22740	-.54320	.00000	.50120	.00000	-.54320
1.104	107.510	11.82470	5.90540	.45130	.02500	-.23000	-.42990	.00000	.50830	.00000	-.42990
1.104	105.520	12.07210	6.42030	.46140	.09370	-.24500	-.31300	.00000	.50420	.00000	-.31300
1.104	103.540	12.34020	6.99050	.47900	.11430	-.24100	-.20360	.00300	.57900	.00000	-.20360
1.104	101.550	12.54310	7.48850	.51100	.10490	-.24630	-.09750	.00000	.57590	.00000	-.09750
1.104	99.560	12.77710	8.17830	.50040	.20560	-.26090	.00180	.00000	.57050	.00000	.00180
1.104	97.674	12.96240	8.88170	.50020	.16430	-.26750	.09370	.00000	.56670	.00000	.09370
1.104	95.590	13.11370	9.00640	.50390	.20300	-.26370	.18520	.00000	.56390	.00000	.18520
1.104	93.620	13.27130	9.47350	.52140	.19300	-.27030	.27080	.00000	.56110	.00000	.27080
1.104	91.620	13.41550	9.80180	.52530	.20000	-.27820	.33070	.00000	.55820	.00000	.33070
1.104	89.760	13.44540	10.23350	.53900	.17290	-.28230	.40080	.00000	.55510	.00000	.40080
1.104	87.500	12.71070	9.14780	.50320	.16090	-.25280	-.00350	.00000	.57040	.00000	-.00350
1.104	GRADIENT	-.09802	-.24879	-.00493	-.01032	.00263	-.04840	.00000	.00189	.00000	-.04840

RUN NO. 207/ 0 RM/L = 0.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CTH	CYWH	CBL	CA	CAB	XCP/L	CPH	CAF
3.400	109.630	10.02790	7.42960	.75760	-.21060	-.22450	-.53490	.00000	.56300	.00000	-.53490
3.400	107.740	10.06770	7.84380	.77010	-.21390	-.24010	-.43110	.00000	.56310	.00000	-.43110
3.400	105.750	11.09010	8.23140	.79230	-.19970	-.26230	-.34220	.00000	.55730	.00000	-.34220
3.400	103.750	11.29000	8.58150	.80700	-.21170	-.26250	-.25170	.00000	.55350	.00000	-.25170
3.400	101.750	11.43800	8.84250	.82950	-.19280	-.26560	-.16420	.00000	.55380	.00000	-.16420
3.400	99.740	11.02440	9.10950	.83000	-.15300	-.27770	-.07740	.00000	.55230	.00000	-.07740
3.400	97.740	11.76420	9.37760	.83090	-.00380	-.28130	.00090	.00000	.55080	.00000	.00090
3.400	95.750	11.76660	9.58390	.84790	-.04370	-.27640	.08000	.00000	.54930	.00000	.08000
3.400	93.770	11.99570	9.73630	.86950	.05060	-.28010	.15510	.00000	.54670	.00000	.15510
3.400	91.750	12.07980	9.85010	.91020	.15520	-.31010	.22450	.00000	.54820	.00000	.22450
3.400	89.870	12.16550	9.89590	.90960	.16060	-.33280	.27830	.00000	.54850	.00000	.27830
3.400	87.760	11.59920	9.12420	.83770	-.13440	-.29250	-.04240	.00000	.55190	.00000	-.04240
3.400	GRADIENT	-.07635	-.12324	-.00736	-.02071	.00417	-.04119	.00000	.00074	.00000	-.04119

DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TUT 507

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NSPC 507 (FA4) TITAN III C 3IN (M02TP)

(097077) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0300 IN XMRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 202.500

RUN NO. 215/ 0 RM/L = 0.50 GRADIENT INTERVAL = -5.06/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.199	129.410	0.46240	2.34510	.31550	.00200	-.10140	-1.47530	.00000	.01040	.00060	-1.47530
1.199	127.400	0.09000	2.50440	.34300	.00950	-.17920	-1.59470	.00000	.01470	.00000	-1.59470
1.199	129.430	0.24140	2.47040	.34030	-.00020	-.10310	-1.29250	.00000	.01760	.00000	-1.29250
1.199	123.440	0.02360	2.70390	.30140	-.00900	-.19320	-1.19910	.00000	.41510	.00000	-1.19910
1.199	121.440	10.00040	3.11550	.35910	-.11770	-.10750	-1.10170	.00000	.01210	.00000	-1.10170
1.199	119.420	10.33070	3.43480	.34020	-.19190	-.19170	-.99490	.00000	.00940	.00000	-.99490
1.199	117.440	10.04130	3.70340	.30340	-.17460	-.21170	-.90200	.00000	.00450	.00000	-.90200
1.199	115.430	10.94440	4.25940	.39020	-.14390	-.21650	-.79520	.00000	.00220	.00000	-.79520
1.199	113.450	11.20750	4.50440	.30300	-.09990	-.21320	-.66790	.00000	.59960	.00000	-.66790
1.199	111.430	11.49200	5.00210	.41710	-.06170	-.22160	-.57210	.00000	.59840	.00000	-.57210
1.199	109.560	11.74150	5.50290	.44420	.02540	-.23190	-.46610	.00000	.59350	.00000	-.46610
1.199	119.440	10.20470	3.40790	.34480	-.20090	-.19210	-.99140	.00000	.60870	.00000	-.99140
GRADIENT		-.16394	-.15003	-.00325	.00246	.00250	-.05079	.00000	.00124	.00000	-.05079

RUN NO. 200/ 0 RM/L = 0.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	129.620	7.45300	4.10720	.40640	-.01060	-.17000	-1.57690	.00000	.50770	.00000	-1.57690
3.400	127.740	7.02000	4.40600	.53270	-.03440	-.10740	-1.46510	.00000	.57890	.00000	-1.46510
3.400	129.710	0.22030	4.70000	.55570	-.03100	-.10760	-1.35780	.00000	.57780	.00000	-1.35780
3.400	123.710	0.54480	5.05170	.59190	-.04000	-.19550	-1.24630	.00000	.57670	.00000	-1.24630
3.400	121.700	0.00500	5.32970	.61610	-.06330	-.20970	-1.14070	.00000	.57580	.00000	-1.14070
3.400	119.680	0.22390	5.56010	.62700	-.07950	-.22390	-1.02530	.00000	.57510	.00000	-1.02530
3.400	117.600	0.57390	5.91510	.65050	-.11620	-.22503	-.91780	.00000	.57330	.00000	-.91780
3.400	115.600	0.89190	6.26400	.66700	-.16090	-.23730	-.80110	.00000	.57100	.00000	-.80110
3.400	113.700	10.15030	6.64070	.60320	-.20290	-.22020	-.69000	.00000	.56670	.00000	-.69000
3.400	111.690	10.37600	7.02120	.71730	-.21900	-.23970	-.58200	.00000	.56590	.00000	-.58200
3.400	109.610	10.04000	7.45270	.74400	-.20320	-.25780	-.49200	.00000	.56290	.00000	-.49200
3.400	119.700	9.21250	5.63190	.63910	-.00030	-.23910	-1.04390	.00000	.57410	.00000	-1.04390
GRADIENT		-.10007	-.16009	-.01159	.01140	.00427	-.05492	.00000	.00003	.00000	-.05492



DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 507

PAGE 120

NSPC 507 (FA4) TITAN III C 8RM (MNETP)

(0897079) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0300 IN XREF = 4.0330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 BREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 " = 202.500

RUN NO. 79/ 0 RM/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	ICP/L	CPB1	CAF
1.197	169.430	.70950	-.02790	.01040	-.31510	-.03950	-1.00040	.17690	.78420	-.17690	-2.06540
1.197	167.470	1.04750	-.03050	.13200	-.11170	-.05050	-1.11170	.19660	.75100	-.19660	-2.12490
1.197	163.360	1.32600	-.01170	.31950	.03930	-.07010	-1.06130	.22070	.73050	-.22070	-2.10200
1.197	163.320	1.00010	-.09050	.43360	.23200	-.07170	-1.08130	.24530	.72700	-.24530	-2.22040
1.197	161.230	2.00500	-1.12110	.29400	.10940	-.07050	-2.00790	.26170	.72250	-.26170	-2.26940
1.197	159.140	2.50000	-1.23100	.11020	.09790	-.04370	-2.03140	.26670	.71890	-.26670	-2.30010
1.197	157.050	2.81250	-1.31000	.02570	.09550	-.04700	-2.03350	.27560	.71040	-.27560	-2.30790
1.197	154.920	3.26350	-1.30690	-.01800	.17740	-.04700	-2.03350	.29330	.70190	-.29330	-2.32640
1.197	152.040	3.77670	-1.22750	-.04420	.10950	-.09130	-2.02360	.30420	.69260	-.30420	-2.32790
1.197	150.700	4.28490	-1.21530	-.02410	-.00410	-.09230	-2.00370	.31830	.68740	-.31830	-2.32210
1.197	148.060	4.95450	-.02090	.37770	.47070	-.09970	-1.98040	.33920	.67240	-.33920	-2.31990
1.197	159.130	2.40290	-1.24420	.11960	.09740	-.07410	-2.01040	.25440	.71700	-.25440	-2.28490
GRADIENT		-.19693	.01423	.00406	-.01073	.00232	.00466	-.00722	.00442	.00722	.01108

RUN NO. 60/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	ICP/L	CPB1	CAF
3.400	169.550	.00050	-.21580	.07970	-.13070	-.02290	-1.06960	.03950	.69260	-.03950	-1.92410
3.400	167.610	.90130	-.17670	.09650	-.20490	-.03070	-1.09250	.06010	.67630	-.06010	-1.95270
3.400	165.570	1.14030	-.13810	.02010	-.27190	-.03500	-1.91000	.03510	.66680	-.03510	-1.96590
3.400	163.520	1.41990	-.10550	.00260	-.30500	-.03370	-1.95070	.04350	.66090	-.04350	-1.99420
3.400	161.500	1.70050	-.04380	-.00300	-.31090	-.04800	-1.98050	.02540	.65470	-.02540	-2.00580
3.400	159.440	2.00960	.10460	.02060	-.29200	-.09910	-2.00710	-.00050	.64490	.00050	-2.00070
3.400	157.390	2.30490	.22020	.07720	-.20290	-.10270	-2.01340	-.02490	.63940	.02490	-1.99050
3.400	155.340	2.64160	.39510	.11450	-.18440	-.10570	-2.02370	-.04490	.63250	.04490	-1.98070
3.400	153.310	2.98030	.56140	.14000	-.19390	-.11700	-2.03140	-.06410	.62770	.06410	-1.97020
3.400	151.240	3.30430	.83620	.15140	-.21700	-.11250	-2.06930	-.07360	.62020	.07360	-1.95970
3.400	149.200	3.60430	1.07070	.16840	-.18240	-.11660	-2.08440	-.08980	.61590	.08980	-1.94450
3.400	159.440	1.99580	.09370	.02110	-.26510	-.09050	-2.00920	-.00630	.64620	.00630	-2.00290
GRADIENT		-.13262	-.06100	-.00665	-.00150	.00526	.01074	.00893	.00356	-.00893	.00242

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DATE 11 JUL 74  
 TABULATED SOURCE DATA, NSPC TWT 507  
 NSPC 507(FAA) TITAN 111 C 30N (MDETP)

(097000) ( 23 APR 74 )

PARAMETRIC DATA

BETA = .000 PHI = 202.500

REFERENCE DATA

REF 1 4.6330 IN.  
 REF 2 .0000 IN.  
 REF 3 .0000 IN.  
 SCALE 1 .0074

RUN NO. 74/ 0 RM/L = 6.64 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	BL	CA	CAB	XCP/L	CPB1	CAF
1.199	40.200	-71960	.76150	-22400	-36410	.04140	-1.59780	.17750	.78540	-.17750	-1.77530
1.199	100.310	-54330	.65190	-07640	-116770	.02310	-1.58020	.16040	.80330	-.16040	-1.74680
1.199	196.270	-39470	.54280	-02720	-10320	.01680	-1.57400	.12610	.82950	-.12610	-1.70020
1.199	304.220	-25000	.37620	-02220	-17220	.00700	-1.57410	.12110	.84190	-.12110	-1.69320
1.199	462.180	-12710	.21740	-05030	-27260	-.00440	-1.57970	.11700	.86800	-.11700	-1.69730
1.199	600.140	.01740	.05190	-04150	-30020	.00420	-1.58720	.10720	.27410	-.10720	-1.69430
1.199	776.090	.13500	-.16390	-01960	-22120	-.00840	-1.61950	.11100	.80700	-.11100	-1.73050
1.199	976.050	.26530	-.32970	-02780	-35900	-.00950	-1.67200	.11395	.80700	-.11390	-1.78590
1.199	124.020	.43200	-.51590	-03000	-32720	-.02740	-1.70980	.12690	.80260	-.12690	-1.93970
1.199	171.940	.62290	-.63700	-04020	-37660	-.03050	-1.79330	.14630	.78090	-.14630	-2.02020
1.199	169.970	.82760	-.72610	-00470	-33370	-.04070	-1.85900	.16120	.76250	-.16120	-2.02020
1.199	180.130	.04490	.01300	-05440	-32720	.00720	-1.58890	.10430	.61460	-.10430	-1.69330
GRADIENT		-.07218	.07859	-.00379	.00751	.00353	.01240	.00069	.00180	-.00069	.01171

RUN NO. 61/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	190.150	-.58730	.16220	-.02130	-.18800	.01110	-1.74010	.03680	.68640	-.05680	-1.79690
3.400	186.220	-.43280	.24380	-.00340	-.15170	.00350	-1.75840	.05260	.72280	-.05260	-1.79100
3.400	186.200	-.30190	.24380	.03490	-.11790	.00330	-1.73200	.04110	.75370	-.04110	-1.77320
3.400	184.180	-.22900	.17240	.03630	-.11800	.00000	-1.72180	.03400	.74850	-.03400	-1.75590
3.400	182.180	-.12160	.10150	.05060	-.11130	-.00050	-1.72480	.02990	.75710	-.02990	-1.75480
3.400	180.140	-.04490	-.02500	.05270	-.10470	-.08800	-1.73300	.03090	.58050	-.03090	-1.76400
3.400	176.120	.07070	-.10450	.05470	-.11200	-.01440	-1.75080	.02730	.63830	-.02730	-1.77820
3.400	176.090	.17280	-.20470	.09060	-.12290	-.02390	-1.76400	.02890	.60140	-.02890	-1.79290
3.400	174.090	.30100	-.26350	.05240	-.13060	-.03780	-1.78700	.03800	.76230	-.03800	-1.82310
3.400	172.040	.43080	-.27900	.07920	-.13070	-.03090	-1.81790	.04540	.73350	-.04540	-1.86340
3.400	170.090	.63540	-.24290	.08700	-.16230	-.03180	-1.83360	.04790	.69990	-.04790	-1.88360
3.400	160.140	-.04430	-.02460	.05240	-.09160	-.02030	-1.73860	.03150	.58130	-.03150	-1.77010
GRADIENT		-.03378	.02981	-.00431	-.00073	.00242	.00484	.00043	-.00146	-.00043	.00441

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TABULATED SOURCE DATA, M37C TWT 597

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M37C 597 (PA4) TITAN III C 800 (MDETP)

(IN97001) (23 APR 74)

## REFERENCE DATA

9027 = .0302 30. IN XIMP = 4.0330 IN.  
 9027 = .0000 IN. YIMP = .0000 IN.  
 9027 = .0000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 166/ 0 RM/L = 4.63 GRADIENT INTERVAL = -3.00/ 9.00

MACH	ALPHA	CMW	CLW	CYN	CYWH	CBL	CA	CAB	XCP/L	CPH1	CAF
.999	-10.010	-76850	-1.25060	-0.0910	-92600	.07150	.64370	.11070	.44950	-.11070	.93290
.999	-8.090	-60800	-.94710	.04830	-.92780	.06320	.63220	.08620	.43430	-.08620	.54390
.999	-6.090	-47070	-.71030	.08890	-.92490	.07170	.60860	.07190	.46050	-.07190	.53870
.999	-4.090	-35090	-.46390	.10670	-.48770	.06790	.59360	.06390	.48350	-.06390	.53170
.999	-2.090	-23170	-.13170	.13500	-.42760	.06700	.57360	.04970	.57950	-.04970	.52390
.999	-.020	-10840	.11630	.12210	-.49730	.03370	.55490	.04420	.76720	-.04420	.51070
.999	1.990	-00990	.39090	.16050	-.41930	.03300	.54460	.04420	5.00070	-.04420	.50030
.999	4.010	.09200	.77670	.15760	-.36790	.03130	.56850	.04410	-.41610	-.04410	.52430
.999	6.010	.29340	1.07930	.17370	-.39920	-.00300	.57810	.04790	.11250	-.04790	.53020
.999	8.090	.37340	1.35060	.20430	-.39020	-.03630	.58670	.05320	.19380	-.05320	.53340
.999	9.960	.51560	1.59180	.21230	-.39730	-.04530	.60390	.05960	.26080	-.05960	.54430
.999	-.040	-.17000	.17890	.13280	-.37370	.05920	.56510	.04230	.76470	-.04230	.52270
GRADIENT		.03494	.14919	.00633	.01031	-.00532	-.00412	-.00224	.15953	.00224	-.00190

RUN NO. 167/ 0 RM/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLW	CYN	CYWH	CBL	CA	CAB	XCP/L	CPH1	CAF
.902	-10.070	-72210	-1.29210	-.09730	-.60560	.05670	.60710	.11340	.42500	-.11340	.69360
.902	-8.140	-58150	-1.01210	-.03440	-.57000	.05520	.73210	.09940	.43120	-.09940	.68870
.902	-6.120	-42270	-.71030	.03320	-.54810	.05400	.76410	.08600	.43680	-.08600	.69810
.902	-4.100	-35590	-.48020	.07290	-.48780	.04310	.78060	.07230	.48070	-.07230	.70400
.902	-2.070	-21600	-.13190	.08890	-.42690	.04370	.77410	.06310	.57420	-.06310	.71090
.902	-.020	-11270	.11500	.11620	-.42860	.03460	.75100	.05640	.78060	-.05640	.69460
.902	2.010	.09150	.45790	.13160	-.40380	.02690	.75140	.05490	-.47320	-.05490	.69640
.902	4.040	.14640	.74910	.12930	-.39600	.01040	.76120	.05180	.00400	-.05180	.70340
.902	6.050	.27730	1.00760	.13230	-.45420	-.00930	.76310	.05850	.19190	-.05850	.70450
.902	8.100	.42120	1.28500	.12540	-.43430	-.02770	.78030	.06690	.26540	-.06690	.71330
.902	10.040	.54260	1.66940	.10390	-.45190	-.08870	.78980	.07130	.23740	-.07130	.71890
.902	-.010	-.12350	.21960	.10890	-.39900	.02370	.74990	.05270	.07680	-.05270	.69710
GRADIENT		.06248	.14972	.00764	.01005	-.00414	-.00302	-.00244	-.05623	.00244	-.00090

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TABULATED SOURCE DATA, NSPC TWT 987

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NSPC 987(FA4) TITAN III C 82M (MDETP)

(897681) (23 APR 74)

## REFERENCE DATA

REF = .6389 86. IN XREF = 4.0330 IN.  
 LREF = .9000 IN. YREF = .9000 IN.  
 REF = .9000 IN. ZREF = .9000 IN.  
 SCALE = .0074

BETA = .000 PMT = 100.000

## PARAMETRIC DATA

RUN NO. 100/ 0 RM/L = 0.90 GRADIENT INTERVAL = -3.00/ 9.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
1.193	-10.140	-93310	-1.34210	-0.0020	-0.4040	.05260	1.21370	.22190	.46940	-.22190	.99100
1.193	-8.190	-70200	-0.98070	-0.0050	-0.30900	.04350	1.19140	.20330	.46860	-.20330	.98800
1.193	-6.180	-59170	-0.85640	.01220	-0.34440	.05650	1.17490	.18070	.50860	-.18070	.98810
1.193	-4.120	-43930	-0.32090	.02090	-0.29330	.04040	1.17790	.18550	.50900	-.18550	.99100
1.193	-2.070	-27780	-0.03100	.03780	-0.26440	.05060	1.17580	.17290	.83700	-.17290	1.00290
1.193	-0.010	-13670	.26430	.04230	-0.27580	.02810	1.15580	.16430	.89420	-.16430	.99140
1.193	2.020	.02320	.58310	.09950	-0.29090	.00310	1.14500	.16480	-2.33430	-.16480	.98020
1.193	4.060	.16300	.97220	.12980	-0.26710	-0.01360	1.17190	.17550	-.01720	-.17550	.98830
1.193	6.110	.30610	1.20060	.19650	-0.25500	-0.05860	1.19780	.19000	.15920	-.19000	.99780
1.193	8.160	.52260	1.53370	.20620	-0.26620	-0.08450	1.22050	.21470	.28000	-.21470	1.20580
1.193	10.110	.72010	1.89030	.23680	-0.28470	-.12720	1.21870	.22470	.32630	-.22470	.99400
1.193	-0.010	-10920	.24480	.08630	-0.31800	.02430	1.15700	.16890	.93520	-.16890	.98810
GRADIENT		.07302	.14684	.01329	.00199	-.00946	-.00204	-.00136	-.21116	.00136	-.00007

RUN NO. 120/ 0 RM/L = 0.96 GRADIENT INTERVAL = -3.00/ 9.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
1.956	-10.210	-91780	-1.79960	-0.12220	-.02850	.04390	.92230	.12740	.40330	-.12740	.79480
1.956	-8.230	-70180	-1.33220	-0.08050	-.12030	.04640	.90360	.11790	.41120	-.11790	.78560
1.956	-6.180	-52420	-0.94570	-0.07140	-.14680	.03920	.88410	.10340	.42310	-.10340	.78070
1.956	-4.140	-35210	-0.59820	-0.03940	-.11900	.03810	.89710	.09160	.44010	-.09160	.80340
1.956	-2.090	-19380	-.25410	-.00420	-.10900	.02800	.88350	.08120	.46540	-.08120	.80210
1.956	-.020	-.05990	.07940	.02200	-.10460	.00420	.87790	.08170	.81920	-.08170	.79810
1.956	2.030	.09940	.47970	.04710	-.13310	-.01270	.86230	.08900	.84090	-.08900	.79320
1.956	4.090	.25080	.84930	.08210	-.12790	-.03260	.83170	.09390	.82290	-.09390	.79770
1.956	6.150	.43670	1.24950	.09950	-.13250	-.06060	.82080	.10050	.82840	-.10050	.82020
1.956	8.220	.65550	1.68390	.11760	-.12100	-.10050	.84310	.11620	.82640	-.11620	.82660
1.956	10.190	.90660	2.09460	.09050	-.11300	-.09970	.85970	.12580	.83640	-.12580	.83390
1.956	-.000	-.00050	.15610	.02260	-.11090	-.00870	.84440	.07790	.846050	-.07790	.78850
GRADIENT		.07203	.17535	.01430	-.00242	-.00887	-.00037	.00060	-.04264	-.00060	-.00116

DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 367

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NSPC 507 (P44) TITAN III C SHN (MDETP)

(197081) (23 APR 74)

## REFERENCE DATA

REF = .0350 50. IN YMRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 REF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 29/ 0 RM/L = 0.32 GRADIENT INTERVAL = -5.00/ 9.00

MACN	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	-10.220	-0.9130	-1.67300	-0.12730	0.02720	0.03170	75400	0.06330	.42110	-.00630	0.0700
3.400	-0.200	-0.0700	-1.33790	-0.11090	0.01040	0.04370	73990	0.03000	.40200	-.05000	0.0130
3.400	-0.240	-0.4750	-0.73300	-0.10190	-0.04700	0.03200	72770	0.03300	.39210	-.05300	0.0410
3.400	-4.200	-0.3120	-0.02000	-0.06700	-0.04370	0.02740	71970	0.04000	.39740	-.04000	0.0310
3.400	-2.170	-0.1720	-0.31000	-0.05230	-0.00640	0.01970	70970	0.04300	.42390	-.04300	0.0070
3.400	-0.130	-0.00300	0.03900	-0.02350	-0.00360	0.00400	69800	0.03400	-1.90500	-.03940	0.0500
3.400	1.000	-0.1400	0.41300	-0.01090	-0.07370	0.00390	71570	0.04220	.27640	-.04220	0.0730
3.400	3.920	-0.2640	0.74620	0.02070	-0.07650	-0.02190	72850	0.04310	.39700	-.04310	0.0040
3.400	5.940	-0.4500	1.04370	0.03710	-0.07610	-0.03300	74450	0.04950	.35070	-.04950	0.0940
3.400	0.010	-0.09300	1.43200	0.06700	-0.04100	-0.06190	76920	0.06000	.39100	-.06000	0.0800
3.400	9.970	-0.2400	1.71400	0.06750	-0.01475	-0.08170	78760	0.06490	.41000	-.06490	0.02310
3.400	-0.130	-0.00300	0.03090	-0.02090	-0.00710	0.01040	69000	0.03400	-.42070	-.03400	0.0040
3.400	0.07240	0.07240	0.17101	0.01234	-0.00212	-0.00360	0.00116	-0.00039	-.01740	-.00039	0.00154

RUN NO. 30/ 0 RM/L = 4.96 GRADIENT INTERVAL = -9.00/ 5.00

MACN	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.900	-10.110	-0.6150	-1.46110	-0.11630	0.03560	0.06750	69760	0.02760	.42470	-.02760	0.03000
4.900	-0.190	-0.0000	-1.19340	-0.10350	0.03200	0.04330	69400	0.02000	.39440	-.02000	0.0050
4.900	-0.100	-0.4730	-1.01400	-0.12030	-0.04090	0.03370	68520	0.02350	.38040	-.02350	0.0160
4.900	-4.100	-0.30300	-0.03000	-0.10430	-0.00270	0.02650	61020	0.02230	.36540	-.02230	0.0070
4.900	-2.150	-0.19030	-0.39500	-0.09010	-0.07340	0.01000	79610	0.02100	.38000	-.02100	0.0740
4.900	-0.130	-0.00720	0.03390	-0.07400	-0.11960	0.00120	68020	0.02130	.02200	-.02130	0.0500
4.900	1.000	-0.17240	0.30050	-0.00400	-0.00600	-0.00600	59410	0.02250	.37210	-.02250	0.0710
4.900	3.000	-0.20520	0.65000	0.00700	-0.00090	-0.00090	62300	0.02300	.36300	-.02300	0.0040
4.900	5.000	-0.42400	0.91200	0.03220	-0.04300	-0.04900	63110	0.02950	.37950	-.02950	0.0330
4.900	7.020	-0.07000	1.29100	0.05600	-0.02900	-0.04000	66610	0.02000	.41070	-.02000	0.0300
4.900	9.050	-0.07050	1.53520	0.03770	-0.02040	-0.03250	68000	0.02930	.43030	-.02930	0.0370
4.900	-0.130	-0.03470	0.03510	-0.05000	-0.03190	0.03190	60250	0.02330	.45070	-.02330	0.07910
4.900	0.07659	0.07659	0.16066	0.01000	-0.00052	-0.00300	0.00106	0.00010	-.00300	-.00010	0.00154



DATE 11 JUL 74

TABULATED SOURCE DATA, MOPC TWT 507

PAGE 134

MOPC 987 (TAA) TITAN III C SON (MDETP)

(ROT65E) : 22 APR 74 )

## REFERENCE DATA

SREF = .0308 96. IN ZMRP = 4.6338 IN.  
 LREF = .0008 IN. ZMRP = .0008 IN.  
 SREF = .0008 IN. ZMRP = .0008 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 169/ 0 RM/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTMH	CBL	CA	CAB	KCP/L	CPB1	CAF
.998	10.320	.91250	1.53500	.20590	-.36650	-.05840	.00950	.05496	.31800	-.05490	.58400
.998	12.440	.70070	1.61030	.21940	-.36390	-.10390	.05140	.05370	.32820	-.05370	.55800
.998	14.440	.91310	2.10290	.22980	-.36760	-.13970	.06120	.06370	.36000	-.06370	.53330
.998	16.400	1.11190	2.43350	.30000	-.29930	-.16130	.07020	.07570	.37440	-.07570	.55450
.998	18.490	1.38430	2.80280	.42630	-.35050	-.20890	.03300	.09180	.39530	-.09180	.54120
.998	20.540	1.58950	3.06640	.55360	-.32810	-.25910	.02350	.11750	.40730	-.11750	.50500
.998	22.570	1.82900	3.42570	.68390	-.36770	-.31720	.02150	.16370	.42670	-.16370	.48340
.998	24.600	2.10530	3.80100	.77250	-.35910	-.37070	.01250	.17080	.43130	-.17080	.44380
.998	26.610	2.51180	4.19830	.87090	-.31170	-.42360	.59090	.19490	.43990	-.19490	.40390
.998	28.600	2.76430	4.59930	.72930	-.45070	-.45820	.57380	.20990	.44730	-.20990	.36380
.998	30.600	3.09320	5.07890	.58750	-.42730	-.51780	.55630	.22050	.44380	-.22050	.31570
.998	20.540	1.58950	3.07370	.55500	-.32860	-.28560	.62460	.12130	.40730	-.12130	.50320
GRADIENT		.12753	.17340	.63195	-.00328	-.02293	-.00281	.00946	.00673	-.00946	-.01228

RUN NO. 170/ 0 RM/L = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTMH	CBL	CA	CAB	KCP/L	CPB1	CAF
.909	10.390	.58990	1.55620	.06590	-.45900	-.06820	.81390	.00370	.31760	-.00370	.73010
.909	12.530	.70630	1.87420	.08830	-.40390	-.11250	.81720	.08740	.34280	-.08740	.72970
.909	14.550	1.00010	2.21460	.10920	-.35320	-.14910	.79210	.09530	.37120	-.09530	.69680
.909	16.600	1.24380	2.57860	.22030	-.28900	-.20440	.78530	.11390	.38910	-.11390	.67140
.909	18.680	1.55770	3.05370	.39830	-.24270	-.24640	.70630	.13820	.40340	-.13820	.65110
.909	20.740	1.85980	3.46370	.70320	-.27690	-.31390	.70090	.15940	.41310	-.15940	.62130
.909	22.810	2.13820	4.07860	.51970	-.27020	-.35710	.73280	.16880	.41000	-.16880	.58400
.909	24.880	2.47490	4.71000	.62010	-.28830	-.40870	.73410	.18350	.41030	-.18350	.55050
.909	26.970	2.87340	5.51720	.79730	-.31090	-.48000	.70940	.20150	.40850	-.20150	.50790
.909	29.080	3.30010	6.46060	.47210	-.28690	-.51640	.66020	.20360	.40370	-.20360	.45630
.909	31.090	3.81190	7.23470	-.29470	-.55480	-.53250	.60850	.20730	.41120	-.20730	.40120
.909	20.720	1.84230	3.50530	.67350	-.29840	-.32550	.77870	.15930	.41070	-.15930	.61930
GRADIENT		.19407	.27360	.01148	.00036	-.02102	-.009C1	.00695	.00383	-.00695	-.01596



TABULATED SOURCE DATA, NSPC TUT 507

DATE 11 JUL 74

(1897002) ( 23 APR 74 )

NSPC 507(P44) TITAN III C SRN (MBETP)

PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

REF = .0300 IN INRP = 4.0330 IN.  
LREF = .0000 IN. YREF = .0000 IN.  
REF = .0000 IN. ZREF = .0000 IN.  
SCALE = .0074

RUN NO. 171/ 0 RN/L = 0.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.193	10.000	.71010	1.0027C	.23090	-.29330	-.12730	1.20930	.23130	.31990	-.23130	.07700
1.193	12.020	.92060	2.25010	.27210	-.23000	-.16300	1.20930	.24200	.34330	-.24200	.06640
1.193	14.070	1.20030	2.71600	.32110	-.26900	-.21710	1.20910	.25190	.36900	-.25190	.06020
1.193	16.750	1.52250	3.23130	.35140	-.28000	-.25430	1.21670	.26020	.39290	-.26020	.04830
1.193	18.030	1.80990	3.81800	.31180	-.22000	-.29940	1.20940	.27640	.39570	-.27640	.03300
1.193	20.970	2.30030	4.49270	.20370	-.21350	-.34000	1.19390	.28700	.40510	-.28700	.00610
1.193	23.090	2.76300	5.24340	.39590	-.26310	-.41090	1.19000	.28990	.41130	-.28990	.02190
1.193	25.220	3.27320	6.09350	.51270	-.36440	-.47490	1.14390	.30430	.41600	-.30430	.04140
1.193	27.350	3.83480	7.00310	.51200	-.42100	-.53060	1.10700	.31130	.42030	-.31130	.07040
1.193	29.520	4.47230	7.86310	.63900	-.50120	-.59300	1.09640	.34340	.42990	-.34340	.07100
1.193	31.970	5.10270	8.68210	.76700	-.52940	-.63460	1.08620	.37390	.43610	-.37390	.07120
1.193	20.900	2.33320	4.32350	.30270	-.22750	-.34860	1.19440	.29200	.40630	-.29200	.02330
GRADIENT		.20957	.33077	.02230	-.01242	-.02471	-.00675	.00597	.00515	-.00597	-.01272

RUN NO. 121/ 0 RN/L = 0.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.901	10.750	.91910	2.13570	.12330	-.20010	-.12930	.90950	.13040	.35740	-.13040	.03110
1.901	12.730	1.22340	2.55610	.11260	-.16950	-.18270	1.00090	.14600	.30700	-.14600	.03480
1.901	14.600	1.60940	3.03090	.10930	-.12270	-.19270	1.02120	.15010	.41300	-.15010	.06300
1.901	16.910	2.02990	3.50270	.16340	-.13460	-.22270	1.03420	.16710	.42010	-.16710	.06700
1.901	19.010	2.43990	4.09750	.23420	-.15990	-.25460	1.04420	.17930	.43090	-.17930	.08490
1.901	21.130	2.89090	4.59210	.32910	-.17540	-.20120	1.06360	.18060	.45130	-.18060	.07490
1.901	23.270	3.30040	5.08460	.44160	-.23590	-.31350	1.09150	.20240	.46160	-.20240	.09310
1.901	25.300	3.66350	5.55600	.49320	-.19140	-.34780	1.10260	.21020	.46950	-.21020	.09230
1.901	27.400	4.34330	5.95750	.50040	-.14060	-.37920	1.10990	.21600	.47790	-.21600	.09210
1.901	29.560	4.62150	6.32680	.51230	-.07320	-.40360	1.11750	.21350	.48540	-.21350	.09370
1.901	31.590	5.32740	6.70290	.51110	-.01050	-.43680	1.12200	.22200	.49090	-.22200	.09000
1.901	21.130	2.91320	4.53770	.31310	-.16040	-.27510	1.09610	.18990	.45450	-.18990	.07010
GRADIENT		.21347	.32505	.02416	.00470	-.01460	.00603	.00422	.00509	-.00422	.00561

DATE 11 JUL 74

## TABULATED SOURCE DATA, NSFC TWT 507

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NSFC 507(744) TITAN III C SRM (HNETP)

(R97002) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0300 IN. XMP = 4.0330 IN.  
 LREF = .0000 IN. YMP = .0000 IN.  
 BREF = .0000 IN. ZMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 32/ 0 RM/L = 0.33 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CTN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	10.510	.07300	1.77970	.00000	.01320	-.09290	.81090	.06620	.42020	-.00620	.74400
3.400	12.400	1.23930	2.11910	.10420	.01100	-.11060	.83590	.07060	.43510	-.07060	.76330
3.400	14.510	1.51010	2.40940	.12890	.02730	-.12360	.84680	.07220	.44560	-.07220	.77450
3.400	16.560	1.63300	2.63310	.15000	.01380	-.15160	.86080	.07310	.45590	-.07310	.78370
3.400	18.620	2.10700	3.22710	.20220	.03660	-.15940	.86650	.07470	.46470	-.07470	.81100
3.400	20.670	2.52750	3.54050	.23390	.03900	-.20410	.90410	.07350	.47420	-.07350	.83050
3.400	22.750	2.91800	3.90540	.27740	.00600	-.22340	.93690	.07300	.48210	-.07300	.86390
3.400	24.780	3.29620	4.22010	.30800	.00450	-.26360	.97270	.07500	.48950	-.07500	.89770
3.400	26.830	3.70140	4.62240	.32900	.04420	-.29920	1.00590	.07520	.49340	-.07520	.93060
3.400	28.910	4.10400	5.02600	.37850	.03750	-.32500	1.03990	.07330	.49850	-.07330	.96530
3.400	30.900	4.52360	5.43690	.41470	.01310	-.35260	1.05800	.07100	.49800	-.07100	.99810
3.400	20.070	2.52610	3.51280	.23460	.05900	-.17270	.91120	.07360	.47360	-.07360	.83750
GRADIENT		.17532	.17722	.01430	.00217	-.01319	.01245	.00020	.00365	-.00020	.01224

RUN NO. 31/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CTN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.950	10.390	.07840	1.56550	.00500	-.03770	-.09050	.74240	.02680	.42510	-.02680	.71360
4.950	12.310	1.07300	1.84070	.09710	-.06090	-.11090	.76930	.02930	.43450	-.02930	.73990
4.950	14.350	1.32910	2.10800	.10990	-.05310	-.12050	.77930	.03060	.44300	-.03060	.74970
4.950	16.350	1.64040	2.48470	.12490	-.01240	-.13520	.81270	.03080	.45900	-.03080	.78160
4.950	18.370	1.94910	2.78150	.16700	-.01250	-.18240	.84310	.03230	.47090	-.03230	.81070
4.950	20.400	2.34360	3.14220	.21000	.01770	-.21020	.87790	.03160	.48180	-.03160	.84630
4.950	22.440	2.60090	3.48950	.25360	.09460	-.23390	.92870	.03210	.48670	-.03210	.88650
4.950	24.450	3.04930	3.83100	.28100	.09650	-.23390	.98040	.03080	.49250	-.03080	.94950
4.950	26.460	3.41630	4.23490	.30700	.02310	-.28920	.99990	.02960	.49460	-.02960	.97030
4.950	28.500	3.78330	4.51490	.34920	-.00820	-.33070	1.04280	.02800	.50040	-.02800	1.01470
4.950	30.450	4.20980	4.96280	.36110	-.06360	-.34570	1.07540	.02530	.50230	-.02530	1.05000
4.950	20.400	2.34480	3.17390	.21020	.04740	-.18280	.88780	.03030	.48020	-.03030	.85750
GRADIENT		.16835	.16766	.01525	.00290	-.01313	.01733	-.00012	.00399	-.00012	.01745



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TABULATED SOURCE DATA, NSFC TWT 567

DATE 11 JUL 74

(R97003) ( 23 APR 74 )

NSFC 9671744) TITAN III C SRN (MDETP)

PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

REF = .6300 04. IN TMRP = 4.6330 IN.  
LREF = .9000 IN. TMRP = .0000 IN.  
BREF = .9000 IN. TMRP = .0000 IN.  
SCALE = .0674

RUN NO. 172/ 0 RH/L = 0.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLWN	CTN	CTNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.100	31.790	5.14700	6.02120	.71480	-.41900	-.64950	1.03090	.30810	.43950	-.30810	.72270
1.100	33.030	5.77500	9.42850	.80440	-.49200	-.66340	1.02130	.32020	.44490	-.32020	.69330
1.100	35.950	6.42020	10.11220	.92070	-.79120	-.73170	1.02710	.36320	.45240	-.36320	.66100
1.100	38.080	7.06730	10.76930	1.00280	-1.02110	-.77420	1.00600	.39150	.45920	-.39150	.61450
1.100	40.210	7.70270	11.40100	1.13260	-1.09000	-.80410	.97550	.41690	.46410	-.41690	.55090
1.100	42.360	8.34420	11.92530	1.29060	-1.11800	-.84350	.93560	.43900	.47060	-.43900	.49060
1.100	44.480	8.95700	12.52940	1.38750	-1.12100	-.87450	.87790	.45950	.47440	-.45950	.41640
1.100	46.600	9.50730	13.03290	1.50030	-1.09720	-.89660	.82140	.46670	.47800	-.46670	.35470
1.100	48.680	10.03610	13.56930	1.56930	-1.13230	-.92940	.75810	.51910	.48040	-.51910	.23090
1.100	50.810	10.52170	14.06270	1.57560	-1.10520	-.95130	.68790	.53690	.48210	-.53690	.13090
1.100	52.790	10.97000	14.56960	1.57570	-1.09130	-.97020	.60520	.56870	.48180	-.56870	.01640
1.100	42.370	8.35310	11.90220	1.27330	-1.16950	-.89230	.93540	.43220	.47110	-.43220	.50310
GRADIENT		.27766	.27703	.03414	-.03162	-.01942	-.02036	.01276	.00212	-.01276	-.03314

RUN NO. 33/ 0 RH/L = 0.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLWN	CTN	CTNN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	31.000	4.61220	5.32320	.44040	.02510	-.36990	1.08710	.08500	.49990	-.08500	1.00130
3.400	32.960	5.02700	5.93770	.47850	-.01240	-.38910	1.10560	.08390	.50200	-.08390	1.02170
3.400	35.030	5.44410	6.32420	.51940	-.05790	-.43220	1.11610	.07960	.50440	-.07960	1.03640
3.400	37.100	5.89900	6.73330	.55650	-.07430	-.44990	1.13740	.07770	.50660	-.07770	1.05960
3.400	39.160	6.32060	7.15000	.60330	-.12970	-.47970	1.14450	.07530	.50850	-.07530	1.06910
3.400	41.230	6.76490	7.53990	.65960	-.20820	-.51610	1.13940	.07550	.51050	-.07550	1.06390
3.400	43.290	7.22420	7.93190	.70980	-.28460	-.54820	1.12900	.08160	.51250	-.08160	1.04730
3.400	45.360	7.67430	8.33050	.76990	-.34430	-.58010	1.12120	.08810	.51410	-.08810	1.03310
3.400	47.400	8.09200	8.67960	.83920	-.40670	-.60990	1.09450	.08660	.51570	-.08660	1.00810
3.400	49.490	8.54460	9.02440	.90330	-.48020	-.64900	1.07100	.08620	.51690	-.08620	.98480
3.400	51.470	8.96010	9.40080	.96080	-.56760	-.68510	1.04800	.08260	.51870	-.08260	.96200
3.400	41.230	6.78300	7.56760	.65320	-.21480	-.48640	1.14500	.07800	.51030	-.07800	1.06690
GRADIENT		.21304	.18989	.02366	-.02925	-.01334	-.00204	.00021	.00091	-.00021	-.00226

DATE 11 JUL 74

TABULATED SOURCE DATA, WSPC TUT 587

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WSPC 507(PAA) TITAN III C SRM (UNDETP)

(R07004) ( 23 APR 74 )

## REFERENCE DATA

SDET = .0366 36. IN XREP = 4.0336 IN.  
 LREF = .9000 IN. YREP = .0000 IN.  
 SDET = .9000 IN. ZREP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PRI = 100.000

RUN NO. 205/ 0 RM/L = 4.34 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.001	50.420	0.07610	9.77610	-.33240	-4.71020	-.90336	.34990	.00000	.44760	.00000	.34990
.001	52.330	0.39840	10.22170	-.15100	-4.60970	-.94960	.27720	.00000	.44930	.00000	.27720
.001	54.320	0.60590	10.62270	.37170	-4.55870	-1.05070	.20020	.00000	.43390	.00000	.20020
.001	56.350	7.08090	10.94750	.67650	-4.09880	-1.04480	.13160	.00000	.45980	.00000	.13160
.001	58.330	7.27240	11.17050	.75470	-3.73790	-1.09750	.06360	.00000	.45710	.00000	.06360
.001	60.360	7.48830	11.45790	.81200	-3.42560	-1.17110	-.00810	.00000	.45760	.00000	-.00810
.001	62.360	7.69720	11.72630	.89500	-2.97100	-1.17110	-.07350	.00000	.45660	.00000	-.07350
.001	64.370	7.85420	12.06760	1.06410	-.56230	-1.18060	-.15430	.00000	.45700	.00000	-.15430
.001	66.370	8.0101	11.97160	2.00130	.54300	-1.23150	-.21910	.00000	.46230	.00000	-.21910
.001	68.360	8.04520	11.70930	2.05000	.72210	-1.25000	-.25190	.00000	.46730	.00000	-.25190
.001	70.270	8.01270	11.15030	2.04420	.60980	-1.28360	-.25170	.00000	.47370	.00000	-.25170
.001	60.360	7.53770	11.50190	.02450	-3.37870	-1.13950	.00040	.00000	.45830	.00000	.00040
GRADIENT		.09951	.08921	.13059	.32533	-.01779	-.03185	.00000	.00109	.00000	-.03185

RUN NO. 206/ 0 RM/L = 6.24 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.003	50.630	0.07240	14.76200	1.28400	-.83270	-.94710	.51100	.00000	.41830	.00000	.51100
.003	52.720	0.39930	15.05320	1.27050	-1.00280	-.99050	.45120	.00000	.42460	.00000	.45120
.003	54.690	0.81560	15.13030	1.54890	-.90180	-1.06430	.39470	.00000	.43430	.00000	.39470
.003	56.700	0.09370	14.98530	1.65450	-.84690	-1.10290	.33570	.00000	.44410	.00000	.33570
.003	58.660	9.16620	13.97950	1.73990	-.76670	-1.14990	.35450	.00000	.45850	.00000	.35450
.003	60.650	9.29420	13.76360	1.73930	-.87110	-1.17940	.32450	.00000	.46400	.00000	.32450
.003	62.640	9.42090	13.25690	1.75700	-.81210	-1.21640	.30720	.00000	.47330	.00000	.30720
.003	64.610	9.43550	12.54440	1.77070	-.80090	-1.24780	.33430	.00000	.48320	.00000	.33430
.003	66.590	9.57230	12.19030	1.84370	-.84200	-1.27100	.33780	.00000	.49830	.00000	.33780
.003	68.570	9.70470	11.79210	1.92160	-.87440	-1.30860	.32240	.00000	.49780	.00000	.32240
.003	70.450	9.76930	11.26010	1.98920	-.91570	-1.33800	.31380	.00000	.50560	.00000	.31380
.003	60.660	9.35920	13.81590	1.73870	-.91480	-1.33660	.33360	.00000	.46460	.00000	.33360
GRADIENT		.07909	-.20724	.03351	.00404	-.01937	-.00793	.00000	.00456	.00000	-.00793



DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 367

NSPC 5871744 TITAN III C 3RM (MBETP)

(1897584) ( 23 APR 74 )

PARAMETRIC DATA

REFERENCE DATA

BSET = .6369 54. IN XIMP = 4.6338 IN.  
 LSET = .9056 IN. YIMP = .0006 IN.  
 BSET = .9006 IN. ZIMP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 100.000

RUN NO. 287/ 0 RM/L = 0.64 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CWN	CLWN	CYN	CTWN	CBL	CA	CAB	ICP/L	CPB1	CAF
1.198	50.930	9.34000	13.34360	1.21106	-1.17090	-9.0330	.03778	.00000	.47430	.00000	.03778
1.198	52.770	10.01400	13.60990	1.33350	-1.10700	-9.93000	.79830	.00000	.47950	.00000	.79830
1.198	54.770	10.34300	13.73750	1.39440	-9.7480	-9.9610	.73510	.00000	.48330	.00000	.73510
1.198	56.780	10.60300	13.83300	1.42850	-9.6350	-1.00770	.68890	.00000	.48730	.00000	.68890
1.198	58.790	10.99210	13.87370	1.43470	-1.03000	-1.03320	.61800	.00000	.49400	.00000	.61800
1.198	60.770	11.37290	13.80330	1.49430	-1.06160	-1.06320	.37990	.00000	.49780	.00000	.37990
1.198	62.790	11.71580	13.93020	1.53350	-1.03180	-1.10000	.33150	.00000	.50100	.00000	.33150
1.198	64.790	12.01850	13.99340	1.57770	-1.07700	-1.12360	.49170	.00000	.50410	.00000	.49170
1.198	66.760	12.27850	13.87610	1.44270	-1.05170	-1.14400	.45610	.00000	.50840	.00000	.45610
1.198	68.750	12.46680	13.34870	1.68880	-1.03830	-1.16420	.43120	.00000	.51600	.00000	.43120
1.198	70.620	12.62670	12.97530	1.68390	-1.00320	-1.17070	.43580	.00000	.52140	.00000	.43580
1.198	68.760	11.30040	13.77900	1.47810	-1.00570	-1.07210	.57590	.00000	.49800	.00000	.57590
GRADIENT		.15761	-.00911	.02100	.00124	-.01406	-.02186	.00000	.00227	.00000	-.02186

RUN NO. 253/ 0 RM/L = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CWN	CLWN	CYN	CTWN	CBL	CA	CAB	ICP/L	CPB1	CAF
1.947	50.750	9.05180	10.02510	.91430	-.42970	-.74550	1.04490	.00000	.51130	.00000	1.04490
1.947	52.660	9.46220	10.33020	.97030	-.47990	-.77520	1.02020	.00000	.51330	.00000	1.02020
1.947	54.690	9.84870	10.77900	1.01020	-.48030	-.91730	.98610	.00000	.51480	.00000	.98610
1.947	56.700	10.37080	11.01400	1.08390	-.54120	-.84840	.94840	.00000	.51710	.00000	.94840
1.947	58.710	10.74840	11.25930	1.13950	-.56830	-.87470	.91370	.00000	.51890	.00000	.91370
1.947	60.740	11.18160	11.35580	1.17740	-.60370	-.90900	.88480	.00000	.52290	.00000	.88480
1.947	62.740	11.40950	11.39330	1.25990	-.63530	-.93720	.83960	.00000	.52550	.00000	.83960
1.947	64.730	11.75150	11.40400	1.28540	-.71708	-.96850	.79490	.00000	.52870	.00000	.79490
1.947	66.720	12.13120	11.52150	1.34800	-.79680	-.1.00490	.75710	.00000	.53130	.00000	.75710
1.947	68.740	12.39290	11.53390	1.39480	-.78510	-.1.02650	.72000	.00000	.53370	.00000	.72000
1.947	70.610	12.53200	11.41430	1.43190	-.84200	-.1.03150	.68340	.00000	.53620	.00000	.68340
1.947	68.690	10.97310	11.01020	1.16740	-.59810	-.89500	.86480	.00000	.52450	.00000	.86480
GRADIENT		-.17796	.06823	.02638	-.02071	-.01547	-.01854	.00000	.00130	.00000	-.01854

DATE 11 JUL 74

TABULATED SOURCE DATA, NUPC TUT 507

PAGE 140

NUPC 507 (744) TITAN III C SRN (NUPC7P)

(897004) ( 23 APR 74 )

## REFERENCE DATA

## PARAMETRIC DATA

NUPC = .0300 IN. IN. NUPC = 4.0330 IN.  
 LUPC = .0000 IN. YUPC = .0000 IN.  
 NUPC = .0000 IN. ZUPC = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 100.000

RUN NO. 292/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

NUPC	ALPHA	CMN	CLMN	CYN	CTMN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	50.310	9.23400	9.56700	.04470	-.35000	-.07600	1.11770	.00000	.52070	.00000	1.11770
3.400	52.410	9.67160	9.78410	.09450	-.63420	-.71740	1.06900	.00000	.52330	.00000	1.06900
3.400	54.420	9.12450	9.09870	.05800	-.70030	-.73720	1.06940	.00000	.52350	.00000	1.06940
3.400	56.430	9.53470	9.39030	1.02360	-.74050	-.76800	1.04140	.00000	.52700	.00000	1.04140
3.400	58.480	9.91140	9.65340	1.08690	-.84220	-.82000	1.00630	.00000	.52820	.00000	1.00630
3.400	60.470	10.20660	9.93070	1.15030	-.84000	-.84500	.97250	.00000	.52900	.00000	.97250
3.400	62.480	10.60230	10.13750	1.23220	-.91110	-.89000	.92680	.00000	.53050	.00000	.92680
3.400	64.480	10.90210	10.17080	1.30390	-.94230	-.91260	.88360	.00000	.53340	.00000	.88360
3.400	66.480	11.20320	10.37190	1.35340	-1.01010	-.94760	.83990	.00000	.53430	.00000	.83990
3.400	68.490	11.47720	10.46990	1.41810	-1.02500	-.98500	.79230	.00000	.53600	.00000	.79230
3.400	70.370	11.72810	10.54750	1.45750	-1.04470	-1.00630	.74900	.00000	.53770	.00000	.74900
3.400	60.450	10.24100	9.89040	1.15670	-.86300	-.82770	.97350	.00000	.52920	.00000	.97350
GRADIENT	.17311	.10230	.03207	-.02500	-.01642	-.01871	.00000	.00000	.00001	.00000	-.01871

RUN NO. 293/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

NUPC	ALPHA	CMN	CLMN	CYN	CTMN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	50.330	9.19890	9.24980	.09730	-.83170	-.66750	1.18510	.00000	.52410	.00000	1.18510
4.939	52.210	9.57100	9.50320	.05320	-.71680	-.69970	1.16030	.00000	.52590	.00000	1.16030
4.939	54.240	9.05000	9.60200	1.01050	-.73370	-.72690	1.14010	.00000	.52840	.00000	1.14010
4.939	56.240	9.49930	9.17270	1.08020	-.79680	-.76510	1.08820	.00000	.52930	.00000	1.08820
4.939	58.270	9.92150	9.43050	1.13800	-.88100	-.79650	1.07320	.00000	.53120	.00000	1.07320
4.939	60.270	10.25350	9.68500	1.21370	-.92830	-.84540	1.02680	.00000	.53190	.00000	1.02680
4.939	62.270	10.61790	9.98280	1.30190	-1.03880	-.89990	.96180	.00000	.53270	.00000	.96180
4.939	64.280	10.95430	10.21750	1.35790	-1.07540	-.93570	.90800	.00000	.53340	.00000	.90800
4.939	66.280	11.25920	10.41830	1.41480	-1.08040	-.96010	.85800	.00000	.53440	.00000	.85800
4.939	68.280	11.54130	10.47340	1.47380	-1.09930	-.99430	.80730	.00000	.53660	.00000	.80730
4.939	70.180	11.81980	10.53230	1.50330	-1.07800	-1.01240	.77420	.00000	.53740	.00000	.77420
4.939	60.250	10.22420	9.68150	1.21920	-.92840	-.83700	1.03490	.00000	.53190	.00000	1.03490
GRADIENT	.19320	.12467	.03210	-.02488	-.01844	-.02182	.00000	.00000	.00562	.00000	-.02182



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 307

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NSFC 307 (PA4) TITAN III C SRM (M02TP)

(1897003) ( 23 APR 74 )

## REFERENCE DATA

REF = .0360 IN XREF = 4.0330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 BREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 100.000

## PARAMETRIC DATA

RUN NO. 204/ 0 RM/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMW	CLMW	CYN	CTW	CBL	CA	CAB	XCP/L	CPB1	CAF
.596	70.430	7.98330	10.98360	2.11320	.53070	-1.34710	-1.16000	.000000	.47700	.000000	-.11600
.596	72.300	7.90360	10.04010	2.19810	.45900	-1.37160	-.03440	.000000	.49070	.000000	-.03440
.596	74.230	7.81790	8.98440	2.19750	.31460	-1.39420	.09730	.000000	.50600	.000000	.09730
.596	76.240	7.91550	8.52290	2.23080	.11270	-1.43090	.09590	.000000	.51520	.000000	.09590
.596	78.230	7.92010	7.95160	2.20390	-.39530	-1.43670	.13570	.000000	.52440	.000000	.13570
.596	80.230	7.98350	7.41410	2.17450	-.66900	-1.44960	.17680	.000000	.53360	.000000	.17680
.596	82.220	8.08950	7.04210	2.11630	-.69250	-1.46800	.16750	.000000	.54130	.000000	.16750
.596	84.210	8.13350	6.56030	2.04850	-.69750	-1.47480	.15830	.000000	.54940	.000000	.15830
.596	86.170	8.15490	6.07040	2.09400	-.78910	-1.47940	.15770	.000000	.55750	.000000	.15770
.596	88.160	8.21720	5.64250	2.17650	-.91460	-1.49750	.13630	.000000	.56460	.000000	.13630
.596	90.070	8.18960	5.23150	2.21920	-1.01320	-1.51620	.14760	.000000	.57060	.000000	.14760
.596	90.230	9.00330	7.45480	2.16830	-.65670	-1.45110	.19340	.000000	.53360	.000000	.19340
GRADIENT		.01832	-.27548	-.00055	-.00485	-.00766	.01073	.000000	.00461	.000000	.01073

RUN NO. 203/ 0 RM/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMW	CLMW	CYN	CTW	CBL	CA	CAB	XCP/L	CPB1	CAF
.900	70.610	9.77400	11.23930	2.08300	-1.05300	-1.34770	.33960	.000000	.50590	.000000	.33960
.900	72.490	9.88100	10.78390	2.13840	-1.09000	-1.37560	.33370	.000000	.51330	.000000	.33370
.900	74.430	10.01160	10.36060	2.20370	-1.16940	-1.39700	.31670	.000000	.52050	.000000	.31670
.900	76.430	10.13530	9.89450	2.27380	-1.22690	-1.42310	.28660	.000000	.52790	.000000	.28660
.900	78.410	10.26240	9.52750	2.31880	-1.33070	-1.44370	.26230	.000000	.53400	.000000	.26230
.900	80.410	10.33770	9.21250	2.19910	-1.26260	-1.44390	.25420	.000000	.53870	.000000	.25420
.900	82.400	10.47710	8.92080	2.21220	-1.32290	-1.44700	.24030	.000000	.54370	.000000	.24030
.900	84.380	10.47750	8.47640	2.22640	-1.43990	-1.46410	.23320	.000000	.54910	.000000	.23320
.900	86.340	10.49490	8.06820	2.27560	-1.48660	-1.47820	.22360	.000000	.55420	.000000	.22360
.900	88.340	10.59220	7.71790	2.28720	-1.52510	-1.48080	.20020	.000000	.55930	.000000	.20020
.900	90.230	10.63500	7.36340	2.27950	-1.52690	-1.48390	.17090	.000000	.56390	.000000	.17090
.900	90.400	10.50110	9.37650	2.22200	-1.26930	-1.44970	.25310	.000000	.53850	.000000	.25310
GRADIENT		.04376	-.19333	.00751	-.02933	-.00659	-.00622	.000000	.00289	.000000	-.00622

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR



TABULATED SOURCE DATA, NUSC TWT 507

DATE 11 JUL 74

(R07000) ( 23 APR 74 )

NUSC 507(P44) TITAN 111 C 30M (M0ETP)

PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

REF = .0300 30. IN XMRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0073

RUN NO. 202/ 0 RM/L = 0.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLWN	CYN	CYWN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.196	70.750	12.48110	12.00120	1.04500	-1.07310	-1.15420	.49740	.00000	.32080	.00000	.49740
1.196	72.000	12.64020	12.36000	1.03910	-1.08140	-1.15000	.51900	.00000	.32770	.00000	.51900
1.196	74.620	12.83260	12.13650	1.03550	-1.11330	-1.17070	.50150	.00000	.33180	.00000	.50150
1.196	76.620	12.92540	12.00070	1.07980	-1.16050	-1.19080	.45480	.00000	.33390	.00000	.45480
1.196	78.610	13.02910	11.91690	1.72370	-1.17510	-1.20790	.41470	.00000	.33370	.00000	.41470
1.196	80.620	13.11960	11.75900	1.74330	-1.21490	-1.22350	.39480	.00000	.33810	.00000	.39480
1.196	82.610	13.24200	11.59150	1.76380	-1.26740	-1.23470	.35290	.00000	.34070	.00000	.36290
1.196	84.590	13.32920	11.21440	1.78240	-1.28830	-1.23680	.37300	.00000	.34070	.00000	.37300
1.196	86.530	13.43090	10.96990	1.79690	-1.29210	-1.24040	.36280	.00000	.34830	.00000	.36280
1.196	88.560	13.55980	10.77840	1.80780	-1.26380	-1.24750	.32450	.00000	.35070	.00000	.32450
1.196	90.440	13.55090	10.52510	1.78700	-1.26030	-1.25110	.28620	.00000	.35320	.00000	.28620
1.196	90.620	13.00060	11.71460	1.72550	-1.18920	-1.21400	.36450	.00000	.33810	.00000	.36450
GRADIENT		.05479	-.10816	.00944	-.01167	-.00549	-.01172	.00000	.00152	.00000	-.01172

RUN NO. 252/ 0 RM/L = 7.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLWN	CYN	CYWN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.950	70.740	12.27350	10.09960	1.41920	-.83930	-1.03080	.72500	.00000	.53910	.00000	.72500
1.950	72.620	12.42030	10.05350	1.45880	-.91160	-1.06090	.69330	.00000	.54030	.00000	.69330
1.950	74.630	12.70590	10.91890	1.49820	-.93600	-1.08120	.69820	.00000	.54270	.00000	.69820
1.950	76.630	12.95510	10.91360	1.54150	-.99720	-1.11340	.61480	.00000	.54490	.00000	.61480
1.950	78.630	13.11680	10.97390	1.59740	-1.03760	-1.13170	.56340	.00000	.54660	.00000	.56340
1.950	80.630	13.32640	10.93360	1.61800	-1.07220	-1.15720	.52160	.00000	.54860	.00000	.52160
1.950	82.640	13.48180	10.78150	1.64590	-1.08190	-1.18050	.48620	.00000	.55030	.00000	.48620
1.950	84.640	13.57180	10.68280	1.65900	-1.06370	-1.18150	.43160	.00000	.55190	.00000	.43160
1.950	86.610	13.69140	10.60090	1.69460	-1.09790	-1.19150	.37710	.00000	.55390	.00000	.37710
1.950	88.620	13.67930	10.47290	1.70330	-1.10040	-1.19740	.29870	.00000	.55460	.00000	.29870
1.950	90.500	13.72950	10.44910	1.72310	-1.10820	-1.20170	.22480	.00000	.55520	.00000	.22480
1.950	90.620	12.28780	10.74740	1.61110	-1.06650	-1.15330	.52540	.00000	.54900	.00000	.52540
GRADIENT		.07700	-.02411	.01545	-.01263	-.00853	-.02452	.00000	.00089	.00000	-.02452

DATE 1. JUL 74 TAPULATED SC-ACE DATA, MSFC INT 507

(IN97005) ( 23 APR 74 )

MSFC 507(PA4) TITAN III C SHM (INDETP)

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

## REFERENCE DATA

REF = .036 IN XMP = 4.030 IN.  
 LREF = .000 IN. YMP = .0000 IN.  
 BREF = .0000 IN. ZMP = .0000 IN.  
 SCALE = .0074

RUN NO. 293/ 0 RM/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAP
3.480	70.540	11.73400	10.56450	1.48990	-1.02670	-1.04090	.79350	.00000	.33750	.00000	.79350
3.480	72.420	11.96710	10.50460	1.51010	-1.05160	-1.05470	.74340	.00000	.54040	.00000	.74340
3.480	74.430	12.24060	10.50390	1.53260	-1.05740	-1.07160	.69790	.00000	.54290	.00000	.69790
3.480	76.430	12.49950	10.44200	1.59960	-1.06760	-1.09110	.64460	.00000	.54350	.00000	.64460
3.480	78.430	12.67550	10.40160	1.60640	-1.09030	-1.10270	.59680	.00000	.54760	.00000	.59680
3.480	80.440	12.85080	10.33960	1.63700	-1.09090	-1.11610	.52990	.00000	.54960	.00000	.52990
3.480	82.410	12.94360	10.21740	1.65220	-1.12040	-1.13490	.47430	.00000	.55170	.00000	.47430
3.480	84.430	13.03840	10.12210	1.66670	-1.13670	-1.14520	.41950	.00000	.55320	.00000	.41950
3.480	86.410	13.08730	10.04940	1.68720	-1.14210	-1.15190	.35090	.00000	.55430	.00000	.35090
3.480	88.420	13.13280	9.84790	1.69300	-1.14270	-1.15040	.27650	.00000	.55660	.00000	.27650
3.480	90.290	13.17660	9.68950	1.67570	-1.12080	-1.15900	.21670	.00000	.55840	.00000	.21670
3.480	92.420	12.80050	10.27420	1.63070	-1.10230	-1.11250	.53720	.00000	.54990	.00000	.53720
GRADIENT		.07246	-.04209	.01064	-.00371	-.00627	-.02906	.00000	.00102	.00000	-.02906

RUN NO. 294/ 0 RM/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAP
4.959	70.530	11.95980	10.48090	1.51820	-1.20410	-1.07410	.87750	.00000	.54060	.00000	.87750
4.959	72.210	12.24640	10.57190	1.53510	-1.20970	-1.07640	.83140	.00000	.54220	.00000	.83140
4.959	74.230	12.52700	10.56700	1.59030	-1.23780	-1.09260	.77710	.00000	.54470	.00000	.77710
4.959	76.250	12.72310	10.62100	1.61090	-1.21320	-1.11090	.71660	.00000	.54590	.00000	.71660
4.959	78.250	12.94790	10.63490	1.64210	-1.20800	-1.12210	.65090	.00000	.54750	.00000	.65090
4.959	80.250	13.06050	10.56500	1.64380	-1.25090	-1.16710	.59750	.00000	.54310	.00000	.59750
4.959	82.250	13.17370	10.61920	1.65880	-1.24140	-1.14340	.52400	.00000	.54950	.00000	.52400
4.959	84.250	13.25360	10.55730	1.67280	-1.30620	-1.17560	.44920	.00000	.55070	.00000	.44920
4.959	86.250	13.36860	10.61060	1.66090	-1.26920	-1.16210	.37760	.00000	.55100	.00000	.37760
4.959	88.250	13.39540	10.50910	1.67630	-1.26780	-1.17400	.30340	.00000	.55220	.00000	.30340
4.959	90.120	13.22800	10.23670	1.66330	-1.29440	-1.18930	.20710	.00000	.55330	.00000	.20710
4.959	92.230	13.03280	10.57600	1.64260	-1.26640	-1.14390	.59490	.00000	.54880	.00000	.59490
GRADIENT		.06726	-.00630	.00765	-.00492	-.00606	-.03342	.00000	.00061	.00000	-.03342

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TABULATED SOURCE DATA, MOPC TWT 507

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MOPC 507 (744) TITAN III C SON (MDETP)

(007000) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN XIMP = 4.0330 IN.  
 LREF = .0000 IN. YIMP = .0000 IN.  
 BREF = .0000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 211/ 0 RM/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPBI	CAF
.997	109.800	7.50230	.54700	2.01430	-2.13140	-1.49460	-.82370	.00000	.64240	.00000	-.22970
.997	107.710	7.63970	.89910	1.91420	-2.12340	-1.48220	-.13430	.00000	.63720	.00000	-.13430
.997	103.720	7.71040	1.21010	1.75080	-2.08250	-1.46490	-.03030	.00000	.63160	.00000	-.03030
.997	101.750	7.74420	1.69950	1.66680	-2.03270	-1.45740	.05800	.00000	.62360	.00000	.05800
.997	101.740	7.80830	2.29920	1.59300	-2.04980	-1.47980	.11730	.00000	.61470	.00000	.11730
.997	99.750	7.93390	2.73580	1.53960	-2.06360	-1.47220	.20260	.00000	.60780	.00000	.20260
.997	97.760	8.01630	3.17330	1.47210	-2.01660	-1.49560	.29800	.00000	.60140	.00000	.29800
.997	93.770	8.07700	3.60190	1.44400	-1.95450	-1.48830	.38850	.00000	.59500	.00000	.38850
.997	93.780	8.13570	3.98190	1.35080	-1.96780	-1.48030	.47920	.00000	.58950	.00000	.47920
.997	91.770	8.16300	4.3770	1.30100	-1.94620	-1.47330	.48310	.00000	.58270	.00000	.48310
.997	89.920	8.22090	4.86570	1.33450	-2.04900	-1.48360	.35290	.00000	.57660	.00000	.35290
.997	99.750	7.98260	2.73500	1.52390	-2.01940	-1.47650	.20180	.00000	.60610	.00000	.20180
GRADIENT		-.03359	-.22441	.03494	-.00778	.00058	-.03459	.00000	.00341	.00000	-.03459

RUN NO. 212/ 0 RM/L = 6.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPBI	CAF
.904	109.470	9.56690	2.59770	2.34460	-1.90230	-1.43530	-.32110	.00000	.61710	.00000	-.32110
.904	107.560	9.68100	2.99960	2.37920	-1.87940	-1.46170	-.20990	.00000	.61230	.00000	-.20990
.904	105.570	9.85720	3.47820	2.42400	-1.86940	-1.47620	-.07640	.00000	.60680	.00000	-.07640
.904	103.590	9.97060	3.98970	2.42240	-1.77070	-1.47970	.03900	.00000	.60080	.00000	.03900
.904	101.600	10.28630	4.56360	2.46150	-1.77380	-1.50520	.16980	.00000	.59530	.00000	.16980
.904	99.610	10.46930	5.04140	2.42660	-1.73140	-1.52350	.26230	.00000	.59050	.00000	.26230
.904	97.630	10.58800	5.53150	2.50790	-1.73120	-1.53870	.30710	.00000	.58520	.00000	.30710
.904	95.650	10.70080	6.06540	2.53500	-1.73320	-1.55870	.25750	.00000	.57970	.00000	.25750
.904	93.670	10.84320	6.54480	2.55290	-1.69290	-1.55190	.21680	.00000	.57500	.00000	.21680
.904	91.660	10.94320	7.06790	2.56550	-1.60420	-1.53770	.22420	.00000	.56970	.00000	.22420
.904	89.600	10.99530	7.46800	2.54550	-1.69930	-1.54380	.23820	.00000	.56550	.00000	.23820
.904	99.610	10.52120	5.12780	2.50620	-1.69420	-1.50370	.25330	.00000	.56980	.00000	.25330
GRADIENT		-.07772	-.25273	-.01113	-.01136	.00956	-.02802	.00000	.00341	.00000	-.02802



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 907

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NSFC 907 (PA4) TITAN III C SRN (MDETP)

(1897000) ( 23 APR 74 )

## REFERENCE DATA

REF = .0360 IN. XREF = 4.0330 IN.  
LREF = .0000 IN. YREF = .0000 IN.  
OREF = .0000 IN. ZREF = .0000 IN.  
SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 213/ 0 RM/L = 0.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	109.360	11.92100	3.30410	2.28220	-1.17990	-1.25050	-58600	.00000	.59520	.00000	-.58600
1.197	107.400	12.10440	5.83360	2.32080	-1.18700	-1.26760	-48510	.00000	.59070	.00000	-.48510
1.197	105.500	12.43430	6.43090	2.32190	-1.21590	-1.28290	-36350	.00000	.58600	.00000	-.36350
1.197	103.510	12.60680	6.97840	2.31270	-1.21260	-1.29220	-24740	.00000	.58190	.00000	-.24740
1.197	101.530	12.92420	7.47420	2.31230	-1.22400	-1.30470	-12620	.00000	.57430	.00000	-.12620
1.197	99.530	13.15050	8.01090	2.31760	-1.23390	-1.31030	-81920	.00000	.57430	.00000	-.01920
1.197	97.570	13.29960	8.61970	2.31790	-1.17340	-1.31850	.07720	.00000	.56940	.00000	.07720
1.197	95.590	13.44950	9.14450	2.31190	-1.13360	-1.32500	.16750	.00000	.56340	.00000	.16750
1.197	93.610	13.58470	9.53980	2.29770	-1.10050	-1.32540	.25950	.00000	.55990	.00000	.25950
1.197	91.600	13.64750	9.87360	2.29160	-1.06620	-1.32450	.34640	.00000	.55770	.00000	.34640
1.197	89.740	13.67470	10.13440	2.27820	-1.04230	-1.32450	.39890	.00000	.57440	.00000	-.02210
1.197	87.950	13.11480	7.98650	2.31890	-1.21360	-1.30190	-.02210	.00000	.00195	.00000	-.05141
1.197	GRADIENT	-.09199	-.25351	.00095	-.00757	.00372	-.05141	.00000			

RUN NO. 255/ 0 RM/L = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.931	109.410	11.99990	6.86270	1.97390	-69920	-1.10070	-60320	.00000	.57910	.00000	-.60320
1.931	107.340	12.17360	7.18500	2.02370	-72290	-1.11530	-49770	.00000	.57680	.00000	-.49770
1.931	105.320	12.44120	7.61180	2.07330	-73570	-1.14070	-36330	.00000	.57400	.00000	-.36330
1.931	103.290	12.69740	7.97760	2.10850	-78360	-1.15840	-26370	.00000	.57200	.00000	-.26370
1.931	101.530	12.91540	8.29270	2.13750	-81900	-1.17820	-14870	.00000	.57020	.00000	-.14870
1.931	99.520	13.13230	8.62850	2.15370	-86230	-1.19640	-.03960	.00000	.56830	.00000	-.03960
1.931	97.530	13.19210	8.93210	2.15960	-87840	-1.19700	.05000	.00000	.56390	.00000	.05000
1.931	95.590	13.30310	9.24410	2.16760	-91370	-1.20410	.13650	.00000	.56350	.00000	.13650
1.931	93.590	13.49710	9.52630	2.18320	-93860	-1.21140	.22700	.00000	.56190	.00000	.22700
1.931	91.570	13.51700	9.76950	2.18570	-95190	-1.22160	.30700	.00000	.56000	.00000	.30700
1.931	89.690	13.62770	9.98020	2.19150	-95250	-1.22720	.37790	.00000	.55870	.00000	.37790
1.931	87.950	12.99810	6.59570	2.13110	-85910	-1.18240	-.05750	.00000	.56780	.00000	-.05750
1.931	GRADIENT	-.08288	-.15977	-.01010	.01449	.00632	-.05022	.00000	.00104	.00000	-.05022

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TABULATED SOURCE DATA, NUPC TWT 987

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NUPC 987 (P44) TITAN III C 3RM (NUPCP)

IR97000) ( 23 APR 74 )

## REFERENCE DATA

REF = .6750 IN. INRP = 4.6330 IN.  
 LREF = .5000 IN. YNRP = .0000 IN.  
 REF = .5000 IN. ZNRP = .3000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 289/ 0 RM/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLW	CTW	CYN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	109.550	14.44270	6.44130	1.70160	-0.69910	-1.03660	-0.53440	.00000	.58020	.00000	-0.55440
3.400	107.650	11.69010	6.77390	1.75090	-0.74000	-1.06750	-0.44350	.00000	.57610	.00000	-0.44350
3.470	105.660	11.94070	7.16190	1.80340	-0.76690	-1.10000	-0.33220	.00000	.57540	.00000	-0.33220
3.480	103.670	12.16210	7.37220	1.83140	-0.81000	-1.12430	-0.24070	.00000	.57270	.00000	-0.24070
3.480	101.670	12.36000	7.59750	1.86750	-0.84600	-1.14610	-0.13940	.00000	.57040	.00000	-0.13940
3.480	99.660	12.59310	8.33550	1.92200	-0.87210	-1.16260	-0.05460	.00000	.56770	.00000	-0.05460
3.480	97.690	12.76320	8.71250	1.94380	-0.90230	-1.20750	.03680	.00000	.56510	.00000	.03680
3.480	95.670	12.86870	9.02320	1.97610	-0.92430	-1.22160	.12420	.00000	.56280	.00000	.12420
3.480	93.700	13.00970	9.32340	1.98640	-0.94600	-1.22660	.21250	.00000	.56080	.00000	.21250
3.480	91.690	13.10060	9.53640	2.00490	-0.94500	-1.24460	.28800	.00000	.55930	.00000	.28800
3.480	89.610	13.16460	9.73520	2.00860	-0.94940	-1.24860	.36040	.00000	.55790	.00000	.36040
3.480	87.600	12.55730	8.32940	1.92220	-0.87350	-1.19670	-0.04630	.00000	.56750	.00000	-0.04630
GRADIENT		-0.06032	-0.17227	-0.01564	.01346	.01116	-0.04601	.00000	.00117	.00000	-0.04601

RUN NO. 289/ 0 RM/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLW	CTW	CYN	CBL	CA	CAB	KCP/L	CPB1	CAF
4.959	109.700	11.49030	6.44410	1.72270	-0.73920	-1.07390	-0.60610	.00000	.58050	.00000	-0.60610
4.959	107.620	11.76820	6.78410	1.77660	-0.75990	-1.14910	-0.49680	.00000	.57860	.00000	-0.49680
4.959	105.600	12.04930	7.08320	1.80420	-0.79290	-1.17140	-0.37170	.00000	.57720	.00000	-0.37170
4.959	103.600	12.27720	7.49930	1.85930	-0.8160	-1.18350	-0.25660	.00000	.57420	.00000	-0.25660
4.959	101.700	12.48470	7.82360	1.89980	-0.8340	-1.23420	-0.16820	.00000	.57220	.00000	-0.16820
4.959	99.700	12.69030	8.21040	2.01000	-0.8460	-1.23750	-0.07010	.00000	.56960	.00000	-0.07010
4.959	97.610	12.82640	8.49640	1.96430	-0.93970	-1.23210	.02180	.00000	.56770	.00000	.02180
4.959	95.790	13.00140	8.77120	1.97560	-0.95090	-1.26160	.11200	.00000	.56610	.00000	.11200
4.959	93.910	13.06910	9.00230	2.00200	-0.96710	-1.26130	.19660	.00000	.56440	.00000	.19660
4.959	91.790	13.11600	9.13950	2.01620	-1.03560	-1.27960	.28270	.00000	.56330	.00000	.28270
4.959	89.910	13.17400	9.23050	2.00010	-1.01450	-1.30210	.34500	.00000	.56280	.00000	.34500
4.959	87.800	12.76840	8.21840	1.92360	-0.86630	-1.25180	-0.07440	.00000	.57000	.00000	-0.07440
GRADIENT		-0.04492	-0.14764	-0.01475	.01469	.00991	-0.04604	.00000	.00095	.00000	-0.04604



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 TABULATED SOURCE DATA, NSFC TWT 507  
 NSFC 987 (FA4) TITAN III C SRN (HDET)

1807007 ( 23 APR 74 )

PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

REF = .0300 36. IN XREF = 4.0330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 BREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

RUN NO. 210/ 0 RM/L = 4.90 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CHM	CLMM	CTM	CTMM	CBL	CA	CAB	XCP/L	CPB1	CAF
.997	129.390	9.8290	-1.0670	2.0360	-6.4470	-1.1360	-1.0420	.00000	.67450	.00000	-1.04200
.997	127.600	9.1010	-1.0980	2.1460	-6.9960	-1.2250	-9.9920	.00000	.67430	.00000	-9.99200
.997	125.600	8.2890	-1.0530	1.9070	-1.0460	-1.2650	-8.9940	.00000	.67270	.00000	-8.99400
.997	123.600	6.4710	-1.0560	1.8770	-1.0000	-1.3260	-7.9940	.00000	.67210	.00000	-7.99400
.997	121.670	6.6490	-9.5030	1.7000	-1.0000	-1.3670	-7.0230	.00000	.66970	.00000	-7.02300
.997	119.650	6.6470	-7.7900	2.1280	-2.0100	-1.4040	-5.9390	.00000	.66610	.00000	-5.93900
.997	117.670	7.0390	-5.9210	2.0340	-2.0300	-1.4590	-4.9630	.00000	.66210	.00000	-4.96300
.997	115.670	7.2060	-4.0160	1.9940	-2.0560	-1.4830	-3.9990	.00000	.65850	.00000	-3.99900
.997	113.670	7.3100	-1.6750	1.9390	-2.1350	-1.4790	-2.9950	.00000	.65440	.00000	-2.99500
.997	111.680	7.4570	-1.8160	1.9400	-2.1640	-1.4930	-2.0330	.00000	.64840	.00000	-2.03300
.997	109.700	7.5480	.4770	1.9110	-2.0070	-1.4920	-1.2640	.00000	.63360	.00000	-1.26400
.997	119.670	6.6400	-7.6920	2.1170	-1.9910	-1.4160	-6.1520	.00000	.66560	.00000	-6.15200
GRADIENT		-0.0854	-0.0732	.00509	.00402	.01700	-0.04810	.00000	.00159	.00000	-0.04810

RUN NO. 203/ 0 RM/L = 6.23 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CHM	CLMM	CTM	CTMM	CBL	CA	CAB	XCP/L	CPB1	CAF
.999	129.380	8.9310	-1.1540	2.0360	-1.1130	-1.0930	-1.2330	.00000	.67250	.00000	-1.23300
.999	127.470	7.3270	-1.1220	2.0350	-1.3240	-1.1240	-1.1670	.00000	.67090	.00000	-1.16700
.999	125.480	7.6230	-9.9920	2.0260	-1.3450	-1.1780	-1.0630	.00000	.66740	.00000	-1.06300
.999	123.450	7.9330	-6.9670	2.0010	-1.3970	-1.2240	-9.9750	.00000	.66260	.00000	-9.97500
.999	121.480	8.1830	-3.1810	2.0070	-1.6000	-1.2600	-8.9420	.00000	.65640	.00000	-8.94200
.999	119.450	8.4040	.1040	2.0210	-1.6730	-1.2850	-7.9370	.00000	.64980	.00000	-7.93700
.999	117.480	8.6130	.3750	2.0400	-1.7450	-1.3160	-6.9060	.00000	.64300	.00000	-6.90600
.999	115.470	8.8980	1.0400	2.1260	-1.7970	-1.3620	-5.8810	.00000	.63670	.00000	-5.88100
.999	113.500	9.1920	1.6130	2.2270	-1.7970	-1.3980	-4.9330	.00000	.62930	.00000	-4.93300
.999	111.490	9.4250	2.1420	2.3210	-1.7910	-1.4250	-3.9820	.00000	.62270	.00000	-3.98200
.999	109.630	9.6010	2.5920	2.3670	-1.7920	-1.4460	-2.9540	.00000	.61730	.00000	-2.95400
.999	119.460	8.4980	.1800	2.0320	-1.6690	-1.2700	-8.0450	.00000	.64880	.00000	-8.04500
GRADIENT		-0.1338	-0.2007	-0.01643	.05019	.01734	-0.04831	.00000	.00297	.00000	-0.04831

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TABULATED SOURCE DATA, MOPC TWT 307

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MOPC 307 (PAA) TITAN III C 30M (MDETP)

(027007) ( 23 APR 74 )

## REFERENCE DATA

3027 = .0300 00. IN 1MRP = 4.0338 IN.  
 3027 = .0000 IN. 1MRP = .0000 IN.  
 3027 = .0000 IN. 2MRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000  
 BETA = .000 PHI = 100.000

RUN NO. 200/ 0 RM/L = 0.03 GRADIENT INTERVAL = -3.00/ 3.00  
 RUN NO. 254/ 0 RM/L = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CTH	CTWH	CBL	CA	CAB	KCP/L	CPB1	CAF
1.100	129.320	0.79900	1.40210	1.09370	-0.72670	-0.9310	-1.31990	.05300	.03040	.00000	-1.31990
1.100	127.410	0.19390	1.79330	1.73300	-0.81700	-0.9310	-1.43930	.00000	.02880	.00000	-1.43930
1.100	125.410	0.35630	2.09170	1.78160	-0.93370	-1.02280	-1.32280	.00000	.02380	.00000	-1.32280
1.100	123.400	0.87630	2.34320	1.84010	-1.05980	-1.06840	-1.25430	.00000	.02130	.00000	-1.25430
1.100	121.400	10.24000	2.69130	1.94370	-1.14450	-1.11030	-1.11630	.00000	.01830	.00000	-1.11630
1.100	119.390	10.32940	3.11610	2.05700	-1.20290	-1.12850	-1.05030	.00000	.01400	.00000	-1.05030
1.100	117.410	10.04420	3.51320	2.07380	-1.23970	-1.16370	-0.95360	.00000	.01040	.00000	-0.95360
1.100	115.420	11.13300	3.93650	2.13570	-1.25970	-1.18670	-0.84955	.00000	.00850	.00000	-0.84955
1.100	113.430	11.40730	4.36930	2.19570	-1.25970	-1.20270	-0.73650	.00000	.00280	.00000	-0.73650
1.100	111.410	11.74360	4.84400	2.23590	-1.21560	-1.23360	-0.61620	.00000	.00910	.00000	-0.61620
1.100	109.340	11.96140	5.32130	2.26130	-1.21950	-1.24460	-0.53210	.00000	.00320	.00000	-0.53210
1.100	119.410	10.54320	3.14510	2.05890	-1.21290	-1.13060	-1.08010	.00000	.01370	.00000	-1.08010
GRADIENT		-0.15020	-0.19435	-0.03098	.02461	.01465	-0.25034	.00000	.00177	.00000	-0.25034

MACH	ALPHA	CHW	CLWH	CTH	CTWH	CBL	CA	CAB	KCP/L	CPB1	CAF
1.947	129.390	0.42520	2.96800	1.35930	-0.34010	-0.70440	-1.35960	.05000	.05630	.00000	-1.35960
1.947	127.480	0.08920	3.30730	1.42900	-0.38160	-0.81020	-1.40590	.05000	.05340	.00000	-1.40590
1.947	125.470	0.34100	3.71770	1.51810	-0.43770	-0.83330	-1.40790	.05000	.05110	.00000	-1.40790
1.947	123.460	0.70130	4.20080	1.57340	-0.48360	-0.80210	-1.31900	.05000	.04870	.00000	-1.31900
1.947	121.460	10.22780	4.93040	1.64320	-0.57710	-0.91720	-1.22960	.05000	.04540	.00000	-1.22960
1.947	119.430	10.06990	4.93890	1.70960	-0.62540	-0.96130	-1.12980	.05000	.04260	.00000	-1.12980
1.947	117.480	10.98250	3.37680	1.76300	-0.64630	-0.90620	-1.01850	.05000	.03940	.00000	-1.01850
1.947	115.440	11.27610	3.70810	1.81810	-0.67140	-1.01330	-0.91190	.05000	.03650	.00000	-0.91190
1.947	113.470	11.00320	0.27190	1.89110	-0.69220	-1.02210	-0.80630	.05000	.03390	.00000	-0.80630
1.947	111.450	11.91600	0.90390	1.94230	-0.71760	-1.07140	-0.68520	.05000	.03120	.00000	-0.68520
1.947	109.370	12.15730	0.84470	1.99290	-0.74730	-1.09620	-0.56790	.05000	.02800	.00000	-0.56790
1.947	119.480	10.90280	5.03230	1.60950	-0.58250	-0.94790	-1.12240	.05000	.03260	.00000	-1.12240
GRADIENT		-0.19034	-0.20538	-0.03168	.02116	.01596	-0.03023	.00000	.00177	.00000	-0.03023



TABULATED SOURCE DATA, NSFC TWT 387

(097007) (23 APR 74)

NSFC 387 (FMA) TITAN III C SRM (MBETP)

PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

REF = .6360 IN XMRP = 4.4330 IN.  
REF = .9000 IN. YMRP = .0000 IN.  
REF = .9000 IN. ZMRP = .0000 IN.  
SCALE = .0074

RUN NO. 291/ 0 RN/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACB	ALPHA	CNN	CLNN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	129.580	7.87920	3.24300	1.09100	-.32970	-.71870	-1.61240	.00000	.59940	.00000	-1.61240
3.400	127.670	8.26920	3.30010	1.14400	-.36070	-.73970	-1.50240	.00000	.59790	.00000	-1.50240
3.400	125.640	8.67390	3.35080	1.21350	-.40170	-.75000	-1.36360	.00000	.59670	.00000	-1.36360
3.400	123.640	9.06390	4.04920	1.28320	-.43600	-.84560	-1.27140	.00000	.59490	.00000	-1.27140
3.400	121.630	9.49070	4.40820	1.34770	-.46140	-.87000	-1.16070	.00000	.59270	.00000	-1.16070
3.400	119.610	9.88000	4.74650	1.40460	-.53810	-.94130	-1.06620	.00000	.59070	.00000	-1.06620
3.400	117.630	10.23840	5.06970	1.46070	-.59000	-.96350	-.95270	.00000	.58800	.00000	-.95270
3.400	115.610	10.56750	5.40560	1.52350	-.63400	-.99250	-.82370	.00000	.58670	.00000	-.82370
3.400	113.630	10.89260	5.81000	1.59030	-.64370	-.1.02440	-.72430	.00000	.58400	.00000	-.72430
3.400	111.610	11.20540	6.13820	1.65840	-.65740	-.1.06290	-.61240	.00000	.58210	.00000	-.61240
3.400	109.730	11.46040	6.49080	1.70650	-.70090	-.1.08290	-.50810	.00000	.57980	.00000	-.50810
3.400	119.630	9.83790	4.71090	1.40470	-.55130	-.94320	-1.06360	.00000	.59090	.00000	-1.06360
GRADIENT		-.18257	-.16556	-.03142	.01953	.01880	-.05533	.00000	.00100	.00000	-.05533

RUN NO. 290/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACB	ALPHA	CNN	CLNN	CTN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	129.700	7.75290	3.32170	1.05970	-.37590	-.72220	-1.69550	.00000	.59400	.00000	-1.69550
4.939	127.790	8.13000	3.74920	1.14440	-.36490	-.79330	-1.59220	.00000	.59310	.00000	-1.59220
4.939	125.790	8.65050	3.89490	1.21730	-.37640	-.82530	-1.49890	.00000	.59450	.00000	-1.49890
4.939	123.790	9.02870	4.19200	1.28890	-.41890	-.88130	-1.38210	.00000	.59330	.00000	-1.38210
4.939	121.780	9.40570	4.47080	1.35920	-.45960	-.89640	-1.24940	.00000	.59130	.00000	-1.24940
4.939	119.760	9.81090	4.77270	1.41540	-.49470	-.93290	-1.10800	.00000	.58990	.00000	-1.10800
4.939	117.780	10.21710	5.07360	1.48800	-.59710	-.97880	-.98160	.00000	.58860	.00000	-.98160
4.939	115.760	10.56620	5.43900	1.52950	-.65440	-.1.00870	-.86790	.00000	.58670	.00000	-.86790
4.939	113.780	10.91170	5.80420	1.59780	-.66510	-.1.03480	-.73730	.00000	.58420	.00000	-.73730
4.939	111.760	11.20120	6.10790	1.63910	-.70670	-.1.07390	-.61250	.00000	.58250	.00000	-.61250
4.939	109.800	11.49280	6.44430	1.70880	-.74770	-.1.09740	-.49760	.00000	.58050	.00000	-.49760
4.939	119.780	9.79250	4.76780	1.41640	-.54030	-.94880	-1.12440	.00000	.58950	.00000	-1.12440
GRADIENT		-.18996	-.15027	-.03181	.02145	.01826	-.06161	.00000	.00072	.00000	-.06161



DATE 11 JUL 74

TABULATED SOURCE DATA, NAFPC TWT 307

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NAFPC 307 (F44) TITAN III C SRM (H027P)

(0207000) ( 23 APR 74 )

## REFERENCE DATA

027 = .0300 IN ZMRP = 4.6338 IN.  
 L27 = .0000 IN. TMRP = .0000 IN.  
 R27 = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 67/ 0 RM/L = 0.44 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.201	146.470	3.30210	-41350	1.30860	1.47710	-53170	-2.02020	.34710	.66100	-.34710	-2.38730
1.201	146.480	6.07220	-13130	1.33310	1.04680	-60990	-1.97020	.36130	.65420	-.36130	-2.33160
1.201	144.340	6.09130	22960	1.31290	.44940	-65010	-1.93270	.39040	.64710	-.39040	-2.32320
1.201	142.240	7.23090	.47600	1.26320	.17330	-69700	-1.90350	.41650	.64310	-.41650	-2.32410
1.201	140.140	7.76140	.62710	1.25150	-.12020	-73590	-1.82260	.39160	.64120	-.39160	-2.31440
1.201	138.030	6.30640	.86280	1.30200	-.41960	-76160	-1.74720	.37030	.63630	-.37030	-2.31760
1.201	135.930	6.76460	.95940	1.30820	-.61270	-82190	-1.66560	.36000	.63770	-.36000	-2.30290
1.201	133.830	9.08240	.70690	1.32460	-.64310	-86640	-1.58730	.36560	.64160	-.36560	-2.30300
1.201	131.790	9.33050	.56800	1.61340	-.63290	-90420	-1.52320	.38110	.64390	-.38110	-2.30430
1.201	129.710	9.59060	.57590	1.67630	-.60730	-94750	-1.45350	.38900	.64390	-.38900	-2.30420
1.201	127.740	9.82630	.70690	1.74780	-.62640	-97910	-1.39370	.39460	.64240	-.39460	-2.30300
1.201	138.030	6.31440	.91300	1.30970	-.43960	-76200	-1.76100	.37720	.63760	-.37720	-2.33820
GRADIENT		-.21100	-.04910	-.02231	.09634	.01974	-.03230	.00007	.00066	-.00007	-.03236

RUN NO. 66/ 0 RM/L = 0.31 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	149.110	3.97660	-.37690	.44940	-.16900	-.35980	-2.08210	.06590	.63310	-.06590	-2.14800
3.480	147.160	4.37980	.02740	.48610	-.21360	-.38660	-2.07340	.06090	.62760	-.06090	-2.13440
3.480	145.100	4.81710	1.03550	.51670	-.18780	-.43480	-2.07400	.05190	.62370	-.05190	-2.12590
3.480	143.040	5.22060	1.31080	.56930	-.21890	-.45930	-2.03230	.04690	.61970	-.04690	-2.07930
3.480	140.980	5.65670	1.57480	.64620	-.25020	-.50730	-2.00020	.03700	.61620	-.03700	-2.03730
3.480	138.920	6.12210	1.78900	.71010	-.29400	-.54230	-1.93980	.03050	.61450	-.03050	-1.97040
3.480	136.850	6.54990	1.99750	.76030	-.26120	-.59430	-1.86320	.02360	.61290	-.02360	-1.88690
3.480	134.800	6.96590	2.25320	.86340	-.28180	-.61850	-1.78740	.01490	.61050	-.01490	-1.80240
3.480	132.750	7.41940	2.47690	.93360	-.28270	-.66880	-1.70060	.00970	.60920	-.00970	-1.71040
3.480	130.680	7.89180	2.75660	1.01610	-.28360	-.72330	-1.60060	.01140	.60700	-.01140	-1.61210
3.480	128.690	8.26890	2.99270	1.09960	-.31130	-.76030	-1.49700	.01120	.60570	-.01120	-1.50630
3.480	138.920	6.09780	1.76180	.71770	-.27630	-.55660	-1.93630	.02990	.61490	-.02990	-1.96630
GRADIENT		-.21061	-.11680	-.03249	.00626	.01980	-.02909	.00299	.00126	-.00239	-.02119



TABULATED SOURCE DATA, NSPC TWT 907

DATE 11 JUN 74

(R07000) ( 23 APR 74 )

NSPC 907 (FA4) TITAN III C 3RM (HNETP)

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 PHI = 100.000

SNRP = .0360 30. IN XMRP = 4.0330 IN.  
LREF = .9000 IN. YMRP = .0000 IN.  
BREF = .9000 IN. ZMRP = .0000 IN.  
SCALE = .0074

RUN NO. 70/ 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CLMR	CYN	CYMR	CBL	CA	CAB	KCP/L	CPB1	CAF
.000	169.500	.46430	-1.09940	-.09510	-.85480	-.16190	-1.12270	-.07480	.95080	.07680	-1.04390
.000	167.360	.60510	-1.24270	-.09030	-.80750	-.16760	-1.18380	-.06940	.91140	.08940	-1.09440
.000	165.820	.79390	-1.36610	-.04910	-.52510	-.20590	-1.19940	-.04450	.86960	.04650	-1.19290
.000	163.620	.90080	-1.41800	.03300	-.40040	-.24200	-1.23210	-.01610	.83420	.01610	-1.23590
.000	161.590	1.21660	-1.48490	.18480	-.31700	-.29380	-1.30360	-.00540	.80590	.00540	-1.29610
.000	159.580	1.47410	-1.49740	.35530	-.14100	-.33720	-1.33910	.00250	.78000	-.00250	-1.34180
.000	157.930	1.78490	-1.48890	.31370	-.11090	-.36040	-1.36350	.00750	.75820	-.00750	-1.37080
.000	155.480	2.16070	-1.50480	.14120	-.33720	-.40510	-1.36910	.03740	.73960	-.03740	-1.40850
.000	153.460	2.56150	-1.52290	-.03490	.84070	-.40520	-1.35380	.06090	.72670	-.06090	-1.43480
.000	151.390	2.98270	-1.48350	.10970	1.54180	-.44690	-1.33480	.11150	.71360	-.11150	-1.44640
.000	149.430	3.41030	-1.32190	.42090	2.40470	-.49000	-1.30910	.14500	.70050	-.14500	-1.45280
.000	159.580	1.46530	-1.46860	.34280	-.13470	-.32420	-1.35150	-.00150	.77830	.00150	-1.34990
GRADIENT		-.14583	.01184	-.01659	-.13172	.01667	.01084	-.01046	.01215	.01046	.02110

RUN NO. 69/ 0 RM/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CLMR	CYN	CYMR	CBL	CA	CAB	KCP/L	CPB1	CAF
.001	169.500	.65200	-.84550	-.01430	-.49000	-.13940	-1.30350	-.02620	.82080	.02620	-1.27920
.001	167.560	.82150	-.96940	-.02710	-.56490	-.16610	-1.37560	-.00960	.80080	.00960	-1.36590
.001	165.480	1.05130	-1.19140	.03310	-.41410	-.19750	-1.43050	.01330	.79490	-.01330	-1.44380
.001	163.450	1.30540	-1.26400	-.02510	-.37810	-.21610	-1.47990	.04820	.77400	.04820	-1.52820
.001	161.400	1.60230	-1.30340	.21230	-.47610	-.24410	-1.51200	.06870	.75440	-.06870	-1.59080
.001	159.330	1.90820	-1.26890	-.48400	-.43690	-.27340	-1.55090	.10080	.73230	-.10080	-1.65180
.001	157.280	2.34920	-1.33030	-.29890	.28630	-.31700	-1.58370	.14120	.72310	-.14120	-1.72690
.001	155.180	2.75420	-1.36730	.03310	1.28820	-.35240	-1.60490	.21370	.71430	-.21370	-1.81070
.001	153.110	3.23060	-1.35350	.47220	2.15670	-.39260	-1.61110	.26080	.70440	-.26080	-1.89190
.001	151.010	3.70830	-1.35490	.85690	2.62230	-.45660	-1.60270	.29230	.69770	-.29230	-1.89500
.001	148.890	4.20220	-1.42670	.86250	2.71270	-.50200	-1.55980	.30750	.69440	-.30750	-1.86730
.001	159.320	2.00330	-1.28780	-.51050	-.41150	-.26580	-1.55460	.10190	.73150	-.10190	-1.65660
GRADIENT		-.17494	.02275	-.04113	-.17951	.01712	.01341	-.01803	.00647	.01803	.03145

DATE 11 JUL 74

TABULATED SOURCE DATA, NUPC TWT 507

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NUPC 507 (744) TITAN III C SRN (HNETP)

(1207000) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 30. IN XMRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 00/ 0 RM/L = 0.92 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.210	189.400	.01150	-1.10220	.09050	-.31570	-.15360	-1.76800	.15430	.03270	-.15450	-1.94260
1.210	187.430	1.02030	-1.36100	.12280	-.32180	-.19690	-1.84250	.16230	.02030	-.16230	-2.00480
1.210	185.350	1.31790	-1.50900	.25720	-.38070	-.24100	-1.80310	.16580	.79650	-.18580	-2.06890
1.210	183.260	1.67900	-1.60310	.48650	-.13580	-.28670	-1.91630	.20980	.77230	-.20980	-2.12610
1.210	181.170	2.04700	-1.69800	.30000	-.17580	-.32470	-1.93660	.22510	.75650	-.22510	-2.16170
1.210	179.070	2.40740	-1.75950	.24530	-.23540	-.35760	-1.96280	.25060	.74100	-.25060	-2.21340
1.210	176.950	2.99190	-1.78030	.17280	-.11800	-.39740	-1.99240	.28330	.72680	-.28330	-2.27700
1.210	174.830	3.53820	-1.85820	.78240	.47040	-.44240	-2.01520	.30520	.71080	-.30520	-2.32050
1.210	172.740	4.16210	-1.27960	.78240	1.24580	-.48460	-2.04170	.33090	.69040	-.33090	-2.38310
1.210	170.600	4.84650	-.73320	1.16330	1.60170	-.52810	-2.03500	.34800	.67070	-.34800	-2.39370
1.210	168.560	5.52250	-.28890	1.38030	1.49660	-.56110	-2.02080	.37280	.65810	-.37280	-2.43450
1.210	166.500	6.24780	-1.76430	.24520	-.22340	-.35070	-1.97260	.26230	.74090	-.26230	-2.23450
1.210	164.480	7.00000	-.03222	-.03112	-.10284	.01941	.01154	-.01094	.00843	.01094	-.02249

RUN NO. 110/ 0 RM/L = 0.97 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.934	189.350	.79880	-1.01320	.10670	-.19250	-.11410	-1.80840	.06610	.01200	-.06610	-1.87450
1.934	187.380	1.08150	-1.04420	.09730	-.20790	-.14820	-1.84250	.08300	.77370	-.08300	-1.92350
1.934	185.320	1.43190	-.97110	.04900	-.31740	-.17700	-1.87450	.10170	.73730	-.10170	-1.97650
1.934	183.190	1.82290	-.93490	.21170	-.06840	-.20920	-1.92210	.11130	.71640	-.11130	-2.03340
1.934	181.110	2.24510	-.83340	.34170	.06250	-.24380	-1.96070	.11790	.69850	-.11790	-2.07870
1.934	179.090	2.69510	-.62270	.51920	.25570	-.28580	-1.98980	.12460	.68070	-.12460	-2.11450
1.934	176.910	3.12220	-.39250	.53920	.22850	-.30780	-1.99470	.14930	.66750	-.14930	-2.14410
1.934	174.800	3.58850	-.21960	.60510	.27630	-.34330	-2.02090	.15890	.65920	-.15890	-2.17980
1.934	172.680	4.08820	-.00480	.68830	.27100	-.37870	-2.03990	.17160	.65160	-.17160	-2.21160
1.934	170.590	4.57200	.30900	.69440	.02690	-.39980	-2.05060	.20230	.64290	-.20230	-2.23500
1.934	168.570	5.00720	.51960	.68590	-.22660	-.43260	-2.04990	.19950	.63830	-.19950	-2.24950
1.934	166.500	5.44480	-.48560	.45080	-.15040	-.26940	-1.94370	.12650	.67470	-.12650	-2.37300
1.934	164.480	6.00000	-.07768	-.03520	-.01391	.01338	.01203	-.07644	.00779	.00544	-.0147



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TABULATED SOURCE DATA, NSFC TWT 507

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NSFC 507(PA4) TITAN III C SHM (MDETP)

18297000) ( 23 APR 74 )

## REFERENCE DATA

REF : -0300 SA. IN TMRP = 4.0530 IN.  
LREF : -0000 IN. TMRP = .0000 IN.  
REF : -0000 IN. TMRP = .0000 IN.  
SCALE : .0074

## PARAMETRIC DATA

BETA = .060 PHI = 100.000

RUN NO. 65/ 0 RM/L = 0.32 GRADIENT INTERVAL = -5.06/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CYMW	CSL	CA	CAB	XCP/L	CPB1	CAP
3.400	189.530	.67810	-.41800	.09870	-.24190	-.07200	-1.81940	.05750	.72900	-.03750	-1.07700
3.400	187.600	.90710	-.35480	.09990	-.23140	-.11020	-1.84400	.05750	.70100	-.03750	-1.90190
3.400	185.530	1.10510	-.28350	.04330	-.32930	-.12250	-1.87190	.05950	.68100	-.03950	-1.93140
3.400	183.510	1.46030	-.22270	.03200	-.38010	-.16020	-1.90680	.06240	.67070	-.06240	-1.98900
3.400	181.400	1.77680	-.16250	.10210	-.25050	-.20020	-1.94540	.06150	.66450	-.06150	-2.00890
3.400	159.410	2.10260	-.12010	.17740	-.14700	-.22740	-1.98320	.05950	.65870	-.05950	-2.04470
3.400	197.380	2.42640	-.00320	.25310	-.07460	-.25470	-2.02200	.04210	.65160	-.04210	-2.08420
3.400	195.300	2.75590	.02990	.33050	-.01370	-.29800	-2.04850	.03250	.65010	-.03250	-2.08110
3.400	193.280	3.13170	.12600	.39860	-.12090	-.31320	-2.05900	.01890	.64640	-.01890	-2.07490
3.400	191.100	3.52860	.28950	.40560	-.14890	-.35550	-2.05990	.00640	.64110	-.00640	-2.06840
3.400	149.210	3.94160	.53170	.45660	-.17280	-.37740	-2.05780	-.00280	.63440	-.00280	-2.05900
3.400	159.410	2.07820	-.11920	.17730	-.14070	-.24290	-1.98670	.05600	.65870	-.05600	-2.04350
GRADIENT		-.15974	-.04113	-.02108	-.00970	.01509	.01321	.00316	.00390	-.00316	.01005

RUN NO. 64/ 0 RM/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.50

MACH	ALPHA	CMW	CLMW	CTM	CYMW	CSL	CA	CAB	XCP/L	CPB1	CAP
4.959	189.630	.52930	-.35290	.15570	-.26760	-.04010	-1.80400	.02000	.73590	-.02000	-1.92490
4.959	187.710	.75840	-.32620	.15580	-.22510	-.09360	-1.82990	.02050	.70590	-.02050	-1.84940
4.959	185.690	.95760	-.28580	.12200	-.23540	-.12540	-1.86900	.02170	.68930	-.02170	-1.85080
4.959	183.670	1.24090	-.23370	.09480	-.26850	-.14650	-1.90990	.02120	.67530	-.02120	-1.92210
4.959	181.650	1.52850	-.14450	.12230	-.20980	-.16110	-1.96130	.00440	.66340	-.00440	-1.96570
4.959	159.630	1.81750	-.02320	.16370	-.14370	-.19510	-1.99710	-.00740	.65310	-.00740	-1.98980
4.959	197.610	2.11050	.06850	.23500	-.09360	-.25290	-2.01460	-.01670	.64740	-.01670	-1.99820
4.959	195.590	2.43080	.17240	.30850	-.13410	-.25580	-2.01090	-.02480	.64250	-.02480	-1.98600
4.959	193.500	2.80960	.31610	.32410	-.16150	-.30340	-2.03120	-.03640	.63760	-.03640	-1.99480
4.959	191.540	3.23470	.49440	.35310	-.19480	-.31800	-2.04930	-.04620	.63210	-.04620	-2.00300
4.959	149.620	3.61110	.72030	.41060	-.22950	-.34980	-2.04450	-.06360	.62620	-.06360	-1.98080
4.959	159.630	1.81920	-.02200	.17800	-.13680	-.26260	-2.00950	-.00920	.65330	-.00920	-1.99750
GRADIENT		-.15399	-.05188	-.01933	-.00417	.01478	.01286	.00440	.00468	-.00468	.00845

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TABULATED SOURCE DATA, NSFC TWT 507

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NSFC 507 (FA4) TITAN III C RM (MSTP)

(007000) ( 23 APR 74 )

## REFERENCE DATA

REF = .0000 90. IN ZMRP = 4.6330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 REF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 71/ 0 RM/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CW	CLW	CYN	CYNH	CBL	CA	CAB	KCP/L	CPB1	CAF
.900	190.130	-.05380	1.14960	-.49480	-.21790	.04730	-.99520	-.03750	.07400	.05750	-.93770
.900	188.230	-.50000	1.01200	-.36000	-.16000	.03210	-.94030	-.07990	.07600	.05950	-.86040
.900	186.210	-.40310	.90610	-.22420	-.15130	.03020	-.91440	-.09390	.03450	.06390	-.82850
.900	184.190	-.25350	.89900	-.11840	-.12840	.03240	-.89810	-.09630	1.00050	.06630	-.80170
.900	182.180	-.12550	.43730	-.05200	-.14050	-.00800	-.91040	-.10120	1.09300	.10120	-.80920
.900	180.140	-.00020	.19120	-.01360	-.18700	-.00330	-.90350	-.10580	2.59300	.10580	-.79970
.900	178.120	.08300	-.10010	.00110	-.21390	-.04050	-.89790	-.10540	.09370	.10540	-.79240
.900	176.100	.18450	-.31180	-.01210	-.36750	-.03510	-.92670	-.10360	.06350	.10360	-.82300
.900	174.100	.28410	-.59580	-.03690	-.42940	-.08860	-.95870	-.10050	.01690	.10050	-.83620
.900	172.080	.36550	-.84750	-.08330	-.45900	-.09690	-.1.00510	-.09210	.04500	.09210	-.91290
.900	170.120	.48790	-.1.04790	-.07680	-.53480	-.13000	-.1.06870	-.08090	.02330	.08090	-.98780
.900	168.140	.00110	.17220	-.00830	-.14030	-.03130	-.90330	-.10180	.00000	.10180	-.80350
GRADIENT		-.05565	.11545	-.01769	.01868	.00924	.00364	.00103	.00057	-.00103	.00260

RUN NO. 72/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CW	CLW	CYN	CYNH	CBL	CA	CAB	KCP/L	CPB1	CAF
.901	190.220	-.77400	.86980	-.53780	-.33720	.07240	-1.14330	-.02890	.76080	.02890	-1.11440
.901	188.280	-.59670	.55980	-.41320	-.18040	.07890	-1.09120	-.03930	.77020	.03930	-1.03180
.901	186.240	-.42770	.44430	-.26260	-.06920	.08220	-1.06080	-.05650	.78290	.05650	-1.00430
.901	184.210	-.27540	.33260	-.14630	-.07900	.04730	-1.05200	-.06730	.80430	.06730	-.98470
.901	182.170	-.13810	.22070	-.06980	-.12270	.03960	-1.01960	-.08030	.85660	.08030	-.93920
.901	180.130	.04440	.05570	-.04060	-.18670	.01480	-1.04260	-.09700	.49280	.09700	-.94560
.901	178.100	.13190	-.14480	.00050	-.25040	-.00340	-1.05730	-.09950	.79290	.09950	-.95080
.901	176.070	.25800	-.23640	.03930	-.23430	-.03650	-1.05980	-.08100	.76840	.08100	-.97370
.901	174.060	.35620	-.42910	-.02280	-.28120	-.03710	-1.10910	-.06870	.80390	.06870	-1.04040
.901	172.000	.50560	-.82480	-.03460	-.38620	-.09270	-1.17280	-.06180	.80790	.06180	-1.11150
.901	170.040	.68740	-.80050	-.02710	-.47390	-.12620	-1.26300	-.03750	.79880	.03750	-1.22750
.901	168.130	.03230	.06230	-.04080	-.19260	.03240	-1.04010	-.03570	.40720	.03570	-.94430
GRADIENT		-.06907	.07271	-.02344	.01164	.01022	.00505	.00097	-.00118	-.00097	.00468



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CALCULATED SOURCE DATA, NSFC TWT 567

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NSFC 567 (F44) TITAN III C SRM (MNETP)

(1897090) ( 23 APR 74 )

## REFERENCE DATA

REF = .6360 80. IN XMRP = 4.0330 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 REF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 73/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.937	190.310	-.32230	.75670	-.43260	-.37160	.06360	-1.71330	.16090	.75530	-.16090	-1.07420
1.937	189.340	-.60490	.64760	-.25990	-.22300	.04610	-1.69080	.14440	.77110	-.14440	-1.02300
1.937	188.230	-.50070	.52440	-.11430	-.12300	.03990	-1.64440	.13600	.78190	-.13600	-1.78030
1.937	184.240	-.33350	.32220	-.08960	-.10200	.02340	-1.61000	.13000	.77380	-.13000	-1.74080
1.937	182.190	-.18700	.11350	-.07370	-.28420	.00940	-1.58890	.11910	.72830	-.11910	-1.70810
1.937	180.140	-.03940	-.10180	-.04030	-.26920	-.00920	-1.57680	.09450	.32440	-.09450	-1.67140
1.937	178.090	.10940	-.31400	.01470	-.19500	-.01650	-1.50000	.10130	1.01460	-.10130	-1.60330
1.937	176.030	.26820	-.55410	.04900	-.22000	-.04960	-1.61570	.10910	.91490	-.10910	-1.72490
1.937	174.000	.43050	-.78320	.05460	-.26270	-.07010	-1.64840	.11550	.88170	-.11550	-1.78390
1.937	171.910	.62300	-1.00850	.06030	-.30470	-.09860	-1.69910	.12260	.85290	-.12260	-1.82160
1.937	169.830	.84730	-1.15090	.09370	-.32760	-.14660	-1.76140	.12790	.82340	-.12790	-1.88930
1.937	167.140	-.03980	-.10270	-.04400	-.30520	-.01090	-1.56720	.08160	.32550	-.08160	-1.64880
1.937	160.140	-.08173	.09093	-.02168	.00237	.00946	.00147	.00166	-.00690	-.00166	-.00019

RUN NO. 119/ 0 RN/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.937	190.160	-.02210	.63140	-.30800	-.22450	.04630	-1.77770	.06840	.75100	-.06840	-1.04710
1.937	188.200	-.55530	.67320	-.14740	-.01040	.03320	-1.73910	.04350	.80310	-.04350	-1.70270
1.937	186.170	-.39110	.57130	-.06470	.08330	.03040	-1.71970	.03360	.83640	-.03360	-1.75330
1.937	184.090	-.24200	.41420	-.03840	.02610	.02350	-1.70310	.02970	.86730	-.02970	-1.73080
1.937	182.030	-.11990	.24470	-.00900	.01250	.01730	-1.69960	.01840	.90980	-.01840	-1.71800
1.937	179.990	.01990	-.00780	.02230	-.02380	.00380	-1.69030	.01160	.70140	-.01160	-1.70220
1.937	177.930	.13330	-.31030	.04040	-.02620	-.01730	-1.70950	.00670	.94630	-.00670	-1.71630
1.937	175.880	.24630	-.57250	.04230	-.08340	-.02840	-1.70620	.01370	.94560	-.01370	-1.72000
1.937	173.830	.39400	-.78300	.06360	-.06400	-.03260	-1.72370	.02080	.90300	-.02080	-1.74460
1.937	171.780	.59210	-.92670	.09280	-.08950	-.08940	-1.76450	.03340	.84960	-.03340	-1.79790
1.937	169.790	.81070	-1.04330	.11430	-.12390	-.12290	-1.81010	.03370	.81310	-.03370	-1.86390
1.937	179.900	.03780	-.00890	.02720	-.03530	.01000	-1.65780	.01000	.68010	-.01000	-1.66860
1.937	179.900	-.07267	.09339	-.01622	.00251	.00765	.00128	.00083	-.00399	-.00083	.00045

NSFC 587 (F44) TITAN III C SRN (MBETP)

(097090) ( 23 APR 74 )

## REFERENCE DATA

ORZF = .0300 84. IN XMRP = 4.8330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 ORZF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 180.000

RUN NO. 02/ 0 RM/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	190.150	-.66010	.10690	-.11560	-.27190	.03080	-1.77030	.05420	.67200	-.05420	-1.83230
3.400	188.220	-.45120	.20340	-.06570	-.21900	.02980	-1.76560	.05000	.70850	-.05000	-1.81650
3.400	186.200	-.32040	.23360	-.02310	-.12100	.01980	-1.75230	.04410	.74380	-.04410	-1.79650
3.400	184.180	-.17490	.17170	.03600	-.09730	.01290	-1.74230	.03530	.77600	-.03530	-1.77790
3.400	182.150	-.08320	.08040	.05060	-.09140	-.00960	-1.73780	.03090	.77370	-.03090	-1.76870
3.400	180.130	.03210	-.04080	.03340	-.10510	-.01190	-1.73020	.02660	.81250	-.02660	-1.75690
3.400	178.110	.12320	-.13320	.06890	-.13260	-.01630	-1.73460	.02440	.78830	-.02440	-1.73900
3.400	176.080	.21310	-.26830	.06570	-.15740	-.03930	-1.74260	.02930	.81080	-.02930	-1.72220
3.400	174.080	.31710	-.39330	.08070	-.16480	-.03340	-1.75620	.03670	.79260	-.03670	-1.70290
3.400	172.030	.48530	-.40820	.09630	-.20060	-.07970	-1.77330	.04430	.73740	-.04430	-1.61990
3.400	170.080	.65240	-.40390	.10480	-.23260	-.09170	-1.79640	.05180	.72980	-.05180	-1.84820
3.400	168.130	.82120	-.01810	.07220	-.09330	-.02410	-1.72740	.02490	.73960	-.02490	-1.73240
GRADIENT		-.05953	.03543	-.00864	.00012	.00669	.00062	.00035	-.00322	-.00035	.00027

RUN NO. 03/ 0 RM/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	190.070	-.45650	.16170	-.02420	-.17250	.00170	-1.72910	.01950	.69630	-.01950	-1.74470
4.959	188.170	-.34040	.28340	-.00460	-.21860	.01330	-1.71680	.01470	.75680	-.01470	-1.73150
4.959	186.160	-.24800	.24060	.07660	-.16590	-.00990	-1.70810	.01440	.77420	-.01440	-1.72260
4.959	184.150	-.16100	.22440	.09110	-.14370	-.02000	-1.69170	.01370	.82780	-.01370	-1.70550
4.959	182.160	-.07510	.14510	.09230	-.12890	-.02920	-1.69110	.01290	.89590	-.01290	-1.70400
4.959	180.130	.09310	.01510	.06120	-.15190	-.02620	-1.69390	.01240	.63130	-.01240	-1.70840
4.952	178.120	.12660	-.03060	.11140	-.16730	-.03350	-1.69360	.01120	.68210	-.01120	-1.70480
4.959	176.120	.21390	-.10920	.12740	-.16010	-.04260	-1.72660	.01170	.71610	-.01170	-1.73030
4.959	174.130	.30130	-.18870	.14410	-.18320	-.04870	-1.70640	.01340	.73080	-.01340	-1.71930
4.959	172.090	.44430	-.27120	.13260	-.20850	-.09530	-1.74120	.01490	.72880	-.01490	-1.75610
4.959	170.170	.59820	-.24400	.13350	-.23920	-.08420	-1.74270	.01720	.70680	-.01720	-1.75990
4.959	168.130	.84200	.01910	.12450	-.15910	-.02660	-1.69420	.01320	.59390	-.01320	-1.77740
GRADIENT		-.04914	.02903	-.00724	.00109	.00469	.00106	-.00005	.00287	-.00005	.00100



TABULATED SOURCE DATA, NSPC TUT 397

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(097096) ( 23 APR 74 )

NSPC 307(FAA) TITAN III C SRM (INERT)

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 PHI = 133.000

REF = .4300 IN XREF = 4.6330 IN.  
 LREF = .9000 IN. YREF = .0000 IN.  
 REF = .9000 IN. ZREF = .0000 IN.  
 SCALE = .0074

RUN NO. 333/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	ICP/L	CPH1	CAF
.996	109.510	9.06220	-74230	-1.37290	-42710	-93680	-11440	.00000	.66180	.00000	-11440
.996	107.700	9.15610	-32680	-1.37030	-43520	-94480	-10320	.00000	.65600	.00000	-10320
.996	105.690	9.27970	25470	-1.37190	-44470	-96010	.03390	.00000	.64800	.00000	.03390
.996	103.670	9.37480	76370	-1.36170	-45330	-98430	.10430	.00000	.64120	.00000	.10430
.996	101.640	9.42330	1.30180	-1.33360	-44280	-96690	.19680	.00000	.63400	.00000	.19680
.996	99.630	9.46340	1.74400	-1.33350	-36500	-97360	.28850	.00000	.62820	.00000	.28850
.996	97.640	9.50230	2.20800	-1.38420	-32140	-96250	.37880	.00000	.62210	.00000	.37880
.996	95.610	9.56430	2.67610	-1.39820	-26900	-94900	.47760	.00000	.61610	.00000	.47760
.996	93.600	9.62080	3.03330	-1.41020	-19190	-96090	.55520	.00000	.61160	.00000	.55520
.996	91.610	9.55370	3.38510	-1.38880	-14040	-94900	.59460	.00000	.60660	.00000	.59460
.996	89.710	9.60070	4.23210	-1.33490	-93950	-91890	.59880	.00000	.59370	.00000	.59880
.996	87.850	9.47610	1.70180	-1.34320	-38000	-97320	.27760	.00000	.62870	.00000	.27760
GRADIENT		-1.02621	-24014	.00053	-1.01980	-1.00165	-1.03495	.00000	.00316	.00000	-1.03495

RUN NO. 362/ 0 RN/L = 0.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	ICP/L	CPH1	CAF
.997	109.210	11.07240	.69170	-47370	.20340	-1.09830	-1.19960	.00000	.64360	.00000	-1.19960
.997	107.310	11.12850	1.26510	-46220	.24620	-1.09260	-1.09920	.00000	.63720	.00000	-1.09920
.997	105.330	11.32020	1.84770	-46110	.29090	-1.09430	-1.00250	.00000	.63080	.00000	-1.00250
.997	103.380	11.38900	2.43900	-47040	.30150	-1.08670	.09840	.00000	.62440	.00000	.09840
.997	101.420	11.44950	2.94730	-48840	.29520	-1.07210	.20880	.00000	.61890	.00000	.20880
.997	99.440	11.51700	3.44450	-48950	.21890	-1.06800	.31520	.00000	.61360	.00000	.31520
.997	97.460	11.63950	3.98710	-48860	.20430	-1.07100	.42110	.00000	.60830	.00000	.42110
.997	95.490	11.74670	4.47690	-48800	.23630	-1.07420	.48750	.00000	.60320	.00000	.48750
.997	93.550	11.81670	5.23600	-52700	.28680	-1.04270	.45620	.00000	.59840	.00000	.45620
.997	91.610	11.91050	6.19800	-53040	.30350	-1.02360	.35040	.00000	.59310	.00000	.35040
.997	89.780	11.90850	6.97020	-47740	.34410	-1.00000	.30850	.00000	.58740	.00000	.30850
.997	87.860	11.34310	3.44000	-50360	.25760	-1.07030	.31500	.00000	.61360	.00000	.31500
GRADIENT		-1.04199	-30854	.00240	-1.00351	-1.00412	-1.03127	.00000	.00325	.00000	-1.03127

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR



NSPC 507 (PA4) TITAN III C SON (MDETP)

(R07897) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0300 90. IN ZMRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 137.000

RUN NO. 364/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTMH	CBL	CA	CAB	KCP/L	CPH1	CAF
.595	129.350	7.40300	-4.42690	-1.76730	.07300	-.72390	-.82530	.00000	.72720	.00000	-.82530
.595	127.480	7.40150	-4.40940	-1.52960	.57510	-.77410	-.72180	.00000	.72490	.00000	-.72180
.595	125.410	7.35410	-4.32160	-1.36310	.26370	-.83840	-.63163	.00000	.72110	.00000	-.63160
.595	123.390	8.02820	-4.03190	-1.13490	-.20070	-.87690	-.35280	.00000	.71500	.00000	-.35280
.595	121.420	8.23110	-3.65110	-1.23160	-.27210	-.89350	-.47120	.00000	.70760	.00000	-.47120
.595	119.410	8.38410	-3.13000	-1.33700	-.71180	-.92800	-.40260	.00000	.69880	.00000	-.40260
.595	117.400	8.59530	-2.42010	-1.36800	-.36960	-.91400	-.31470	.00000	.68710	.00000	-.31470
.595	115.410	8.82230	-1.98860	-1.34410	-.43360	-.93600	-.24640	.00000	.68000	.00000	-.24640
.595	113.430	8.97680	-1.58570	-1.35130	-.44710	-.93730	-.15840	.00000	.67360	.00000	-.15840
.595	111.440	9.07480	-1.14140	-1.36680	-.34760	-.96090	-.08770	.00000	.66740	.00000	-.08770
.595	109.610	9.22230	-.77340	-1.37360	-.44630	-.95150	.00350	.00000	.66210	.00000	.00350
.595	119.430	8.37640	-3.13030	-1.32710	-.38150	-.89970	-.39360	.00000	.69880	.00000	-.39360
GRADIENT		-.09286	-.20517	-.00963	.05984	.01063	-.04037	.00000	.00360	.00000	-.04037

RUN NO. 365/ 0 RM/L = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTMH	CBL	CA	CAB	KCP/L	CPH1	CAF
.899	120.000	8.65020	-4.13210	-.55960	-.09370	-.88060	-.98110	.00000	.71190	.00000	-.98110
.899	127.120	9.00070	-3.88850	-.54510	-.17080	-.92130	-.90370	.00000	.70820	.00000	-.90370
.899	125.070	9.38150	-3.57400	-.52440	-.14940	-.95580	-.83300	.00000	.69970	.00000	-.83300
.899	123.080	9.68600	-3.19470	-.52250	-.15610	-.98050	-.75070	.00000	.69330	.00000	-.75070
.899	121.100	9.96950	-2.73430	-.50860	-.21400	-.1.00520	-.66350	.00000	.68620	.00000	-.66350
.899	119.120	10.27030	-2.24240	-.50790	-.20850	-.1.03050	-.58400	.00000	.67910	.00000	-.58400
.899	117.120	10.46160	-1.54220	-.49700	-.16230	-.1.05160	-.51270	.00000	.67010	.00000	-.51270
.899	115.150	10.73220	-.89840	-.50650	-.07070	-.1.08620	-.43210	.00000	.66210	.00000	-.43210
.899	113.190	11.00340	-.26560	-.50040	-.02710	-.1.08090	-.34480	.00000	.65450	.00000	-.34480
.899	111.190	11.17170	.30940	-.49370	.06270	-.1.08160	-.24600	.00000	.64860	.00000	-.24600
.899	109.290	11.31300	.83330	-.51070	.15980	-.1.07250	-.15600	.00000	.64220	.00000	-.15600
.899	119.130	10.30640	-2.17940	-.49300	-.22710	-.1.03040	-.99300	.00000	.67820	.00000	-.99300
GRADIENT		-.13545	-.26305	-.00260	-.01276	.01000	-.04137	.00000	.00365	.00000	-.04137



TABULATED SOURCE DATA, NSFC TWT 507

DATE 13 JUL 74

(207097) ( 23 APR 74 )

NSFC 507 (P44) TITAN III C SHN (MDETP)

PARAMETRIC DATA

BETA = .060 PMI = 135.608

REFERENCE DATA

REF = .0360 IN XMRP = 4.0330 IN.  
 LREF = .9600 IN. YMRP = .0000 IN.  
 BREF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

RUN NO. 366/ 0 RM/L = 0.70 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMR	CLMR	CYN	CTMN	CBL	CA	CAB	KCP/L	CPBI	CAF
1.200	126.970	10.40160	-.83370	-.15240	.12390	-.97730	-1.27970	.00000	.68160	.00000	-1.27970
1.200	127.080	10.80440	-.54670	-.13620	.06340	-1.00000	-1.19360	.00000	.63790	.00000	-1.19360
1.200	125.040	11.22600	-.13630	-.13970	-.01320	-1.04000	-1.11140	.00000	.63300	.00000	-1.11140
1.200	123.020	11.64980	.40030	-.14360	-.04490	-1.07740	-1.03710	.00000	.64710	.00000	-1.03710
1.200	121.030	12.06530	.90470	-.14930	-.09960	-1.09700	-.94350	.00000	.64200	.00000	-.94350
1.200	119.030	12.45360	1.41200	-.12580	-.11430	-1.12440	-.88230	.00000	.63710	.00000	-.88230
1.200	117.010	12.76580	1.65780	-.10930	-.10160	-1.14300	-.77480	.00000	.63500	.00000	-.77480
1.200	115.020	13.10290	2.06540	-.09530	-.09230	-1.17500	-.68420	.00000	.63150	.00000	-.68420
1.200	113.030	13.34120	2.55950	-.08230	-.09310	-1.16240	-.59230	.00000	.62720	.00000	-.59230
1.200	111.040	13.58460	2.99020	-.05490	-.03200	-1.19760	-.50400	.00000	.62370	.00000	-.50400
1.200	109.130	13.78070	3.51840	-.03850	-.00240	-1.21610	-.41740	.00000	.61920	.00000	-.41740
1.200	119.080	12.41650	1.42700	-.13030	-.12650	-1.11440	-.87150	.00000	.63690	.00000	-.87150
GRADIENT		-.17294	-.21901	-.00589	.00567	.01214	-.04331	.00000	.00212	.00000	-.04331

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 587

PAGE 188

NSFC 987 (744) TITAN III C 3RM (MDETP)

(897888) ( 23 APR 74 )

## REFERENCE DATA

REF = .0308 IN ZMRP = 4.6338 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 REF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 139.000

RUN NO. 344/ 0 RM/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.898	148.380	5.38430	-3.49560	-1.63400	.21190	-.51480	-1.42160	.13750	.73360	-.13750	-1.55930
.898	148.370	5.38880	-3.76430	-1.64500	.50320	-.58940	-1.39080	.17360	.73110	-.17360	-1.56690
.896	144.240	6.39380	-4.06190	-1.44590	1.07500	-.62730	-1.34500	.21440	.72940	-.21440	-1.53950
.896	142.140	6.98300	-4.27930	-1.10800	1.65130	-.66190	-1.27420	.25890	.72900	-.25890	-1.53310
.898	139.890	7.61040	-4.56800	-.67560	2.02220	-.73280	-1.24380	.26120	.72740	-.26120	-1.50900
.896	137.910	8.76690	-4.83730	-.49910	2.37360	-.77600	-1.19320	.26310	.72430	-.26310	-1.49830
.898	135.830	9.42920	-4.76490	-.20030	2.22110	-.82400	-1.09130	.23330	.72300	-.23330	-1.52860
.896	133.780	8.83310	-4.91920	-.04460	1.96630	-.88190	-1.00260	.22810	.72200	-.22810	-1.52070
.898	131.670	9.31900	-5.13460	.01370	1.32200	-.95870	-.89970	.18470	.72120	-.18470	-1.50450
.896	129.630	9.69820	-4.94580	.06800	1.35470	-.99560	-.81920	.20550	.71630	-.20550	-1.52470
.898	127.640	10.04310	-4.65730	-.01430	.98880	-1.01810	-.73680	.19920	.71020	-.19920	-1.53590
.896	127.900	8.13900	-4.78700	-.36340	2.29900	-.78520	-1.18600	.25650	.72560	-.25650	-1.44430
GRADIENT		-.22102	.06667	-.09834	-.04076	.02498	-.03374	-.00112	.00095	.00112	-.03282

RUN NO. 344/ 0 RM/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.194	147.850	6.94640	-2.49600	-.83190	.11580	-.69310	-1.87030	.35540	.69698	-.35540	-2.22370
1.194	145.880	7.55180	-2.45630	-.49500	.82970	-.78430	-1.85930	.37270	.69268	-.37270	-2.23210
1.194	143.710	8.11600	-2.45900	-.17240	1.24810	-.81740	-1.81180	.35870	.68988	-.35870	-2.17080
1.194	141.540	8.68270	-2.39850	-.03170	1.31910	-.87310	-1.74340	.33570	.68648	-.33570	-2.07910
1.194	139.430	9.24710	-2.18600	.06490	1.35990	-.90920	-1.66290	.31220	.68148	-.31220	-1.97510
1.194	137.290	9.84080	-2.02250	.25970	1.07610	-.98470	-1.57820	.29790	.67750	-.29790	-1.87620
1.194	135.150	10.43150	-1.90350	.28940	.76500	-1.05740	-1.49800	.29520	.67480	-.29520	-1.79320
1.194	133.020	10.98270	-1.76620	.24350	.49400	-1.08800	-1.39630	.27820	.67200	-.27820	-1.67490
1.194	130.900	11.34360	-1.84030	.21970	.43560	-1.13010	-1.29880	.25800	.67200	-.25800	-1.55680
1.194	128.830	11.60540	-1.74220	.18240	.38120	-1.13130	-1.19890	.24810	.67040	-.24810	-1.44710
1.194	126.900	11.94650	-1.53160	.20200	.30236	-1.13580	-1.08110	.19360	.66770	-.19360	-1.26480
1.194	127.310	9.79620	-1.99390	.23760	1.38160	-.97820	-1.37300	.28410	.67720	-.28410	-1.65710
GRADIENT		-.24485	-.04764	-.04209	.02386	.02332	-.03860	.00769	.00139	-.00769	-.04629



DATE 11 JUL 74

## TABULATED SOURCE DATA, NSFC TWT 567

PAGE 161

(897096) (23 APR 74)

NSFC 567 (744) TITAN III C SRM (MDETP)

## PARAMETRIC DATA

## REFERENCE DATA

REF = .6300 IN. IMP = 4.6350 IN.  
 LREF = .9000 IN. YIMP = .0000 IN.  
 REF = .9000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

BETA = .000 PHI = 135.000

RUN NO. 348/ 0 RN/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWM	CLPM	CYN	CYHM	COL	CA	CAS	XCP/L	CPB1	CAF
1.955	148.090	5.93750	-.04190	.16000	.43150	-.61620	-1.66760	.10260	.65240	-.18280	-2.09040
1.955	148.050	6.49790	-.16140	.19420	.30900	-.66580	-1.65110	.20100	.64790	-.20160	-2.05220
1.955	143.910	7.05340	-.35410	.15310	.24930	-.70050	-1.62300	.21100	.64320	-.21100	-2.03490
1.955	141.790	7.60630	-.51050	.14260	.14910	-.74130	-1.76100	.21650	.64300	-.21650	-1.99760
1.955	139.370	8.36470	-.97350	.14460	.01660	-.79680	-1.77410	.25060	.64280	-.25060	-1.99470
1.955	137.420	9.98130	1.70000	.12400	.01750	-.84670	-1.72820	.22740	.64160	-.22740	-1.95370
1.955	135.320	9.46830	1.83610	.11080	.01660	-.87900	-1.66090	.22210	.63990	-.22210	-1.88310
1.955	133.320	9.68430	1.16200	.09510	.03650	-.88590	-1.59220	.20990	.63600	-.20990	-1.78210
1.955	131.190	10.24450	1.37490	.09060	.04250	-.93090	-1.47010	.20030	.63450	-.20030	-1.67070
1.955	129.070	10.74400	1.51920	.08350	.00190	-.97040	-1.36590	.19240	.63360	-.19240	-1.57650
1.955	127.040	11.26430	1.70210	.08780	.00030	-.99250	-1.31050	.18010	.63240	-.18010	-1.49370
1.955	137.600	8.60990	.82710	.10440	.02350	-.80800	-1.69410	.21620	.63950	-.21620	-1.91040
GRADIENT		-.25095	-.06096	.00484	.01824	.01792	-.02695	.00039	.00069	-.00039	-.38734

RUN NO. 320/ 0 RN/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWM	CLPM	CYN	CYHM	COL	CA	CAS	XCP/L	CPB1	CAF
3.480	149.790	4.63560	.45400	.00190	.10910	-.51000	-1.96610	.06910	.63960	-.06910	-2.03930
3.480	148.610	5.31820	.52290	-.01460	.04690	-.55740	-1.97530	.06830	.63900	-.06830	-2.04170
3.480	144.730	5.77960	.51100	-.03160	.07960	-.61370	-1.96460	.06160	.64030	-.06160	-2.02630
3.480	142.660	6.35010	.55790	-.05450	.04020	-.66850	-1.92890	.05640	.63960	-.05640	-1.99540
3.480	140.560	6.65070	.70290	-.06830	.03550	-.72000	-1.80720	.05070	.63850	-.05070	-1.93800
3.480	138.400	7.57370	.89970	-.07230	.01420	-.75160	-1.81950	.04850	.63620	-.04850	-1.86910
3.480	136.400	7.86320	1.04260	-.06490	.01320	-.77910	-1.73000	.04140	.63470	-.04140	-1.77150
3.480	134.320	8.39690	1.22460	-.05910	.04530	-.82910	-1.65780	.03250	.63300	-.03250	-1.69030
3.480	132.250	8.69570	1.46700	-.05150	.07010	-.86050	-1.58050	.02240	.63060	-.02240	-1.60300
3.480	130.180	9.36720	1.64170	-.06530	.04740	-.91090	-1.49280	.01250	.62930	-.01250	-1.49340
3.480	128.210	9.81300	1.84310	-.07800	.00930	-.94080	-1.38360	.00420	.62770	-.00420	-1.38790
3.480	138.500	7.36140	.89720	-.06600	.01110	-.74780	-1.81150	.04690	.63600	-.04690	-1.85040
GRADIENT		-.24402	-.06975	.00275	.00921	.02059	-.02957	.00314	.00063	-.00314	-.03271

**WSPC 387(TPA4) TITAN III C 32W (M8E1P)**

(297000) ( 23 APR 74 )

## REFERENCE DATA

0027 = .6300 IN. XMP = 4.6300 IN.  
 L027 = .9000 IN. YMP = .0000 IN.  
 0027 = .9000 IN. ZMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

**DETA = .000 PNI = 133.000**

RUN NO. 321/ 0 RM/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

NAME	ALPHA	DETA	CLIM	CY	CYIN	CBL	CA	CAB	KCP/L	CPB1	CAF
4.999	149.270	4.42710	.38400	-.03870	-.02000	-.50500	-2.07010	.01650	.63400	-.01650	-.00860
4.999	149.330	4.43580	.61720	-.04970	-.03170	-.54570	-2.07960	.01390	.63360	-.01390	-2.00380
4.999	145.290	5.45420	.67930	-.07320	-.03820	-.53520	-2.07320	.00970	.63370	-.00970	-2.08490
4.999	145.250	5.93190	.71020	-.11700	-.00580	-.70280	-2.05190	.00490	.63650	-.00490	-2.05680
4.999	141.220	4.50410	.65070	-.13060	-.01680	-.65070	-2.00290	.00140	.63490	-.00140	-2.00430
4.999	139.180	7.05010	.94570	-.11420	-.04430	-.77370	-1.93340	.00360	.63450	-.00360	-1.93180
4.999	137.140	7.58990	1.09990	-.14220	-.06410	-.81250	-1.65320	-.00610	.63310	-.00610	-1.64510
4.999	135.000	6.07630	1.53640	-.13050	-.06910	-.86740	-1.76000	-.01440	.62740	-.01440	-1.74560
4.999	133.070	6.61980	1.41410	-.09580	-.15640	-.89580	-1.67530	.02100	.63070	.02100	-1.65440
4.999	131.040	9.10640	1.57090	-.09390	-.20810	-.97390	-1.62780	.02880	.62960	.02880	-1.59900
4.999	129.100	6.59210	1.78840	-.10840	-.22550	-.97980	-1.52820	.03610	.62630	.03610	-1.49200
4.999	139.200	7.05160	.94820	-.10110	-.00820	-.79540	-1.913790	-.00590	.63450	-.00590	-1.93200
4.999	149.270	4.42710	.38400	-.03870	-.02000	-.50500	-2.07010	.01650	.63400	-.01650	-.00860
4.999	149.330	4.43580	.61720	-.04970	-.03170	-.54570	-2.07960	.01390	.63360	-.01390	-2.00380
4.999	145.290	5.45420	.67930	-.07320	-.03820	-.53520	-2.07320	.00970	.63370	-.00970	-2.08490
4.999	145.250	5.93190	.71020	-.11700	-.00580	-.70280	-2.05190	.00490	.63650	-.00490	-2.05680
4.999	141.220	4.50410	.65070	-.13060	-.01680	-.65070	-2.00290	.00140	.63490	-.00140	-2.00430
4.999	139.180	7.05010	.94570	-.11420	-.04430	-.77370	-1.93340	.00360	.63450	-.00360	-1.93180
4.999	137.140	7.58990	1.09990	-.14220	-.06410	-.81250	-1.65320	-.00610	.63310	-.00610	-1.64510
4.999	135.000	6.07630	1.53640	-.13050	-.06910	-.86740	-1.76000	-.01440	.62740	-.01440	-1.74560
4.999	133.070	6.61980	1.41410	-.09580	-.15640	-.89580	-1.67530	.02100	.63070	.02100	-1.65440
4.999	131.040	9.10640	1.57090	-.09390	-.20810	-.97390	-1.62780	.02880	.62960	.02880	-1.59900
4.999	129.100	6.59210	1.78840	-.10840	-.22550	-.97980	-1.52820	.03610	.62630	.03610	-1.49200
4.999	139.200	7.05160	.94820	-.10110	-.00820	-.79540	-1.913790	-.00590	.63450	-.00590	-1.93200
4.999	149.270	4.42710	.38400	-.03870	-.02000	-.50500	-2.07010	.01650	.63400	-.01650	-.00860
4.999	149.330	4.43580	.61720	-.04970	-.03170	-.54570	-2.07960	.01390	.63360	-.01390	-2.00380
4.999	145.290	5.45420	.67930	-.07320	-.03820	-.53520	-2.07320	.00970	.63370	-.00970	-2.08490
4.999	145.250	5.93190	.71020	-.11700	-.00580	-.70280	-2.05190	.00490	.63650	-.00490	-2.05680
4.999	141.220	4.50410	.65070	-.13060	-.01680	-.65070	-2.00290	.00140	.63490	-.00140	-2.00430



NSPC 507 (FAA) TITAN III C SRN (MRETP)

(097099) ( 23 APR 74 )

## REFERENCE DATA

BREF = .0300 84. IN ZMRP = 4.0330 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 BREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 139.000

RUN NO. 319/ 0 RM/L = 0.43 GRADIENT INTERVAL = -9.00/ 9.00

WACH	ALPHA	CWN	CLWN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	169.470	.78000	-.50400	-.01420	-.06900	-.10320	-1.73770	.05320	.73400	-.05320	-1.01300
3.400	167.540	1.00240	-.43900	.00960	.00390	-.10700	-1.76560	.05750	.70710	-.03750	-1.02320
3.400	165.500	1.29790	-.28360	.04640	.05480	-.15360	-1.78140	.05060	.67910	-.05060	-1.04010
3.400	163.450	1.63050	-.15260	.04610	.06440	-.19920	-1.80420	.05910	.66330	-.05910	-1.06340
3.400	161.390	2.01050	.01470	.00810	.01960	-.22770	-1.82810	.05950	.65050	-.05950	-1.08770
3.400	159.320	2.41060	.10110	-.00390	.02250	-.26840	-1.85220	.05450	.64620	-.05450	-1.07670
3.400	157.250	2.84470	.16040	-.00460	.05990	-.31990	-1.87540	.05920	.64400	-.05920	-1.08360
3.400	155.170	3.33960	.23550	.00180	.16020	-.37300	-1.89200	.01940	.64260	-.01940	-1.08140
3.400	153.090	3.84290	.31430	.03350	.21700	-.42850	-1.90700	-.01040	.64100	.01040	-1.08060
3.400	151.010	4.31550	.38150	.04350	.37020	-.48030	-1.92990	-.02590	.64030	.02590	-1.03000
3.400	149.040	4.74360	.42100	-.01130	.12270	-.52170	-1.95330	-.03600	.64020	.03600	-1.91720
3.400	159.340	2.41830	.10160	-.00400	.03460	-.29910	-1.83110	.05250	.64620	-.05250	-1.08360
GRADIENT		-.19923	-.04709	-.00031	-.01070	.02146	.00950	.00486	.00396	-.00486	.00482

RUN NO. 316/ 0 RM/L = 5.05 GRADIENT INTERVAL = -1.00/ 9.00

WACH	ALPHA	CWN	CLWN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
4.959	169.500	.94670	-.79990	.01360	-.01050	-.09350	-1.72720	.01770	.74410	-.01770	-1.74500
4.959	167.070	.74640	-.32750	.01360	-.01210	-.10100	-1.74200	.01020	.70700	-.01020	-1.76030
4.959	165.050	1.03870	-.20440	.09400	.05270	-.15920	-1.75250	.02020	.67640	-.02020	-1.77280
4.959	163.640	1.26850	.00090	.01140	-.00350	-.16950	-1.76090	.02050	.65140	-.02050	-1.80150
4.959	161.610	1.65850	.23790	-.00450	.00010	-.19480	-1.80470	.01970	.63330	-.01970	-1.82450
4.959	159.590	2.03870	.35310	-.00510	.04110	-.23650	-1.80970	.01270	.62980	-.01270	-1.82140
4.959	157.550	2.51610	.46640	-.00480	.06640	-.31680	-1.84760	-.00060	.62800	.00060	-1.84700
4.959	155.520	2.94590	.50440	.00990	.11590	-.36290	-1.87420	-.01540	.62900	.01540	-1.85070
4.959	153.490	3.43300	.50750	.01340	.09490	-.44350	-1.91740	-.03690	.63280	.03690	-1.86030
4.959	151.450	3.86070	.57260	.00120	.06760	-.49030	-1.97860	-.05950	.63270	.05950	-1.91900
4.959	149.520	4.31590	.65100	-.02480	.01770	-.52650	-2.03190	-.07770	.63240	.07770	-1.93420
4.959	159.800	2.08900	.33950	.00880	.06270	-.28370	-1.82000	.00390	.62910	-.00390	-1.82500
GRADIENT		-.19248	-.03505	.00206	-.00402	.02290	.01439	.00474	.00465	-.00474	.00964



TABULATED SOURCE DATA, NSPC TWT 507

DATE 11 JUL 74

(1897100) ( 23 APR 74 )

NSPC 507 (FAA): TITAN III C SHN (MBETP)

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 PHI = 135.000

0027 = .0300 00. IN XMRP = 4.0330 IN.  
 0027 = .0000 IN. YMRP = .0000 IN.  
 0027 = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

RUN NO. 342/ 0 RN/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.932	190.130	-1.06780	.00030	-.47980	-.30800	.00800	-1.00540	.06890	.75390	-.00890	-1.97430
1.932	188.130	-.77080	.00070	-.26080	-.15120	.00720	-1.04890	.04330	.79610	-.04330	-1.95220
1.932	186.050	-.51190	.77720	-.09250	.01140	.07630	-1.00580	.02530	.84220	-.02530	-1.83140
1.932	183.970	-.31090	.57810	-.01220	.07070	.03780	-1.75840	.02130	.80680	-.02130	-1.77970
1.932	181.900	-.13780	.31290	-.00240	.04520	.03620	-1.72710	.01410	.93090	-.01410	-1.74120
1.932	179.810	.03610	.08840	.01070	.06740	.01010	-1.69710	.00530	.41160	-.01220	-1.70930
1.932	177.740	.21900	-.17940	.03930	.11190	-.02300	-1.67210	.00930	.75570	-.00330	-1.67730
1.932	175.650	.37800	-.53800	.03270	.09970	-.04470	-1.65690	.01180	.83180	-.01180	-1.66800
1.932	173.550	.60320	-.80650	-.01190	.05180	-.09180	-1.69640	.02660	.82110	-.02560	-1.72310
1.932	171.460	.83490	-1.14050	-.06320	-.09660	-.12900	-1.76340	.05140	.82440	-.05140	-1.81680
1.932	169.420	1.14540	-1.31260	-.09670	-.18290	-.17560	-1.80100	.08230	.79630	-.06250	-1.88350
1.932	179.820	.04300	-.00500	-.00400	-.00500	.01260	-1.72280	.02890	.66030	-.02890	-1.73170
1.932	GRADIENT	-.09918	.11610	-.01337	-.00649	.01315	-.00629	.00010	.00013	-.00010	-.00639

RUN NO. 316/ 0 RN/L = .56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.970	187.930	-.24670	.29440	-.12760	-.14800	.03140	-1.06190	.04670	.71960	-.04670	-1.90870
1.970	185.890	-.36150	.29810	-.04530	-.05690	.01390	-1.03020	.03880	.75590	-.03880	-1.86500
1.970	183.870	-.21720	.27640	-.01310	-.01360	-.00890	-1.78190	.03140	.81260	-.03140	-1.81330
1.970	181.840	-.08650	.14990	.00200	.00420	-.07310	-1.76220	.02960	.87070	-.02960	-1.79180
1.970	179.810	.01760	-.00470	.02470	.01880	-.06340	-1.73630	.03250	.68380	-.03250	-1.76890
1.970	177.780	.13130	-.14330	.00760	-.00900	-.07430	-1.71810	.03030	.78680	-.03030	-1.74840
1.970	175.760	.24670	-.26260	.00470	-.04730	-.09230	-1.71530	.03360	.78620	-.03360	-1.74890
1.970	173.730	.36170	-.39820	-.00920	.05550	-.12390	-1.71680	.03960	.79080	-.03960	-1.75340
1.970	171.700	.52760	-.49360	-.01500	-.07780	-.15810	-1.73100	.04580	.76990	-.04580	-1.77690
1.970	169.760	.74560	-.47810	-.00750	-.08980	-.17550	-1.74240	.04930	.73260	-.04930	-1.79080
1.970	179.830	.04340	.00650	-.02400	-.01960	-.07810	-1.73860	.03270	.62670	-.03270	-1.77130
1.970	GRADIENT	-.06559	.05174	-.00385	.00001	.01106	-.00669	-.00034	-.00027	.00034	-.00635

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TUT 507

PAGE 100

NSFC 507 (P44) TITAN III C SHN (HDETIP)

(H97100) ( 23 APR 74 )

## REFERENCE DATA

ORZF = .0308 IN INRP = 4.0338 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 ORZF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 133.000

RUN NO. 317/ 0 RM/L = 3.00 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CMW	CLW	CYN	CTW	COL	CA	CAB	XCP/L	CPB1	CAF
4.939	189.770	-.01250	.17260	-.13500	-.10090	.10230	-1.02030	-.00630	.60710	.00030	-1.01370
4.939	187.830	-.01000	.24820	-.11330	-.13900	.09950	-1.73770	.00750	.72810	-.00750	-1.76520
4.939	185.840	-.06190	.23720	-.04390	-.01010	.08630	-1.74590	.00890	.76610	-.00890	-1.75480
4.939	183.830	-.17320	.23110	-.01350	-.03680	.07340	-1.71970	.00760	.83490	-.00760	-1.72740
4.939	181.820	-.00020	.15640	.00130	.01030	.04260	-1.70340	.01070	52.42870	-.01070	-1.71410
4.939	179.810	.03640	-.00510	-.00810	-.07290	.04310	-1.67830	.01070	.63860	-.01070	-1.68900
4.939	177.800	.14230	-.08110	-.00810	-.01290	.02140	-1.67850	.01070	.72360	-.01070	-1.66920
4.939	175.790	.22900	-.10240	-.00470	-.07460	.00270	-1.63830	.01090	.74130	-.01090	-1.68930
4.939	173.760	.37370	-.21190	.01150	-.06370	-.02170	-1.60710	.01120	.72320	-.01120	-1.67830
4.939	171.770	.42990	-.30700	-.00140	-.07630	-.02950	-1.66500	.01170	.74190	-.01170	-1.67670
4.939	169.800	.59910	-.34410	-.02070	-.07810	-.03320	-1.67670	.01600	.72420	-.01600	-1.69270
4.939	179.830	.04480	.01110	-.00790	-.06900	.05270	-1.67840	.01220	.63490	-.01220	-1.69070
4.939	GRADIENT	-.05372	.03281	-.00370	-.00174	.00804	-.08669	-.00065	.23592	.00065	-.00604



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TABULATED SOURCE DATA, M3FC TWT 507

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M3FC 507 (FA4) TITAN III C SRN (M3ETP)

(R07106) ( 23 APR 74 )

## REFERENCE DATA

SREF = .6300 04. IN XMRP = 4.6350 IN.  
 LREF = .9000 IN. YMRP = .0000 IN.  
 BREF = .9000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 90.000

RUN NO. 365/ 0 RM/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYN	CYH	CBL	CA	CAB	XCP/L	CPH1	CAF
.999	109.530	8.34350	.01340	-.08500	1.29780	-.39170	-.12980	.00030	.65130	.00000	-.12980
.999	107.490	8.39790	.42380	-.90740	1.21090	-.38420	-.08420	.00000	.64310	.00000	-.08420
.999	105.490	8.48400	.77810	-.88630	1.20680	-.38300	-.01020	.00000	.63990	.00000	-.01020
.999	103.480	8.54420	1.00840	-.89900	1.18000	-.39680	.04670	.00000	.63660	.00000	.04670
.999	101.490	8.60090	1.38410	-.92100	1.10660	-.37780	.09540	.00000	.63100	.00000	.09540
.999	99.510	8.65330	1.89190	-.97520	.91830	-.36680	.14700	.00000	.62360	.00000	.14700
.999	97.520	8.75500	2.33590	-1.03070	.81280	-.39440	.21490	.00000	.61770	.00000	.21490
.999	95.540	8.81910	2.78520	-1.07250	.68960	-.37940	.29810	.00000	.61150	.00000	.29810
.999	93.560	8.86780	3.28970	-1.12100	.60300	-.36600	.37760	.00000	.60450	.00000	.37760
.999	91.580	8.94240	3.69820	-1.14740	.52660	-.38020	.47500	.00000	.59910	.00000	.47500
.999	89.770	8.99270	4.09450	-1.22080	.38910	-.36650	.51580	.00000	.59380	.00000	.51580
.999	87.800	9.01870	1.91840	-.96750	.95660	-.38860	.14430	.00000	.62330	.00000	.14430
.999	GRADIENT	-.03553	-.20804	.01734	.04773	-.00038	-.03312	.00000	.00293	.00000	-.03312

RUN NO. 361/ 0 RM/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYN	CYH	CBL	CA	CAB	XCP/L	CPH1	CAF
.999	109.540	10.46870	1.97000	-1.29170	1.11100	-.92420	-.17690	.00000	.62770	.00000	-.17690
.999	107.490	10.61730	2.39700	-1.29370	1.12760	-.93520	-.10740	.00000	.62290	.00000	-.10740
.999	105.490	10.70710	2.82590	-1.28950	1.08220	-.93850	-.02340	.00000	.61810	.00000	-.02340
.999	103.480	10.72800	3.21590	-1.33090	.97460	-.92380	.03520	.00000	.61350	.00000	.03520
.999	101.490	10.87590	3.77480	-1.30390	.95670	-.92630	.11800	.00000	.60750	.00000	.11800
.999	99.510	10.90880	4.36100	-1.30810	.91850	-.91730	.19540	.00000	.60090	.00000	.19540
.999	97.520	10.99000	4.96860	-1.29470	.91320	-.90660	.28830	.00000	.59430	.00000	.28830
.999	95.540	11.06470	5.51160	-1.28760	.88390	-.49850	.37000	.00000	.58840	.00000	.37000
.999	93.560	11.09700	5.99540	-1.26860	.92410	-.49760	.40740	.00000	.58310	.00000	.40740
.999	91.580	11.20540	6.48340	-1.24960	.96800	-.48850	.39600	.00000	.57820	.00000	.39600
.999	89.700	11.24140	6.95550	-1.20500	1.01010	-.47860	.37070	.00000	.57340	.00000	.37070
.999	87.800	10.88230	4.33890	-1.29920	.91210	-.51530	.20230	.00000	.60100	.00000	.20230
.999	GRADIENT	-.03755	-.25951	-.00359	.00849	-.00277	-.03166	.00000	.00284	.00000	-.03166

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 567

PAGE 100

NSFC 507(744) TITAN III C 32M (HSETP)

(097107) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 30. IN XIMP = 4.0330 IN.  
LREF = .0000 IN. YIMP = .0000 IN.  
REF = .0000 IN. ZIMP = .0000 IN.  
SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 90.000

RUN NO. 359/ 0 RM/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.997	129.400	0.40030	-2.38270	-1.39890	2.63740	-33450	-76510	.00000	.70210	.00000	-.76510
.997	127.520	0.92070	-2.74450	-1.43150	2.42770	-30660	-.60090	.00000	.70170	.00000	-.60090
.997	125.490	7.17200	-2.07290	-1.30120	2.40330	-.41140	-.59790	.00000	.69860	.00000	-.59790
.997	123.400	7.50290	-2.79110	-1.13950	1.81370	-.41060	-.47660	.00000	.69860	.00000	-.47660
.997	121.450	7.67510	-2.48000	-1.23790	1.89240	-.41060	-.42760	.00000	.69240	.00000	-.42760
.997	119.440	7.92120	-2.25450	-1.10510	1.76900	-.43470	-.32160	.00000	.68750	.00000	-.32160
.997	117.430	8.13670	-1.94220	-.99570	1.65060	-.44030	-.23160	.00000	.68170	.00000	-.23160
.997	115.430	8.29510	-1.58000	-.90570	1.63900	-.45320	-.16430	.00000	.67570	.00000	-.16430
.997	113.420	8.36830	-1.06100	-.85890	1.65900	-.42190	-.10300	.00000	.66750	.00000	-.10300
.997	111.430	8.44840	-.63850	-.84550	1.60640	-.41330	-.05110	.00000	.66100	.00000	-.05110
.997	109.540	8.46400	-.26500	-.84080	1.54670	-.40390	.00360	.00000	.65550	.00000	.00360
.997	119.470	7.87160	-2.25200	-1.11430	1.76250	-.42180	-.32680	.00000	.68770	.00000	-.32680
GRADIENT		-.09898	-.12631	-.03287	.05257	.00262	-.03942	.00000	.00248	.00000	-.03942

RUN NO. 359/ 0 RM/L = 6.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	129.130	0.25990	-2.28440	-1.21640	1.77540	-.48990	-.94120	.00000	.68660	.00000	-.94120
.998	127.240	0.50600	-2.19330	-1.14910	1.84060	-.49490	-.84490	.00000	.68410	.00000	-.84490
.998	125.220	0.84750	-1.90310	-1.11530	1.92710	-.50010	-.76270	.00000	.67870	.00000	-.76270
.998	123.220	9.20750	-1.58630	-1.18240	1.80990	-.51840	-.67450	.00000	.67330	.00000	-.67450
.998	121.200	9.44850	-1.20550	-1.24810	1.68690	-.52190	-.59510	.00000	.66760	.00000	-.59510
.998	119.210	9.65730	-.79040	-1.29400	1.48470	-.51860	-.50510	.00000	.66180	.00000	-.50510
.998	117.230	9.89290	-.23150	-1.30370	1.29970	-.52770	-.42850	.00000	.65450	.00000	-.42850
.998	115.230	10.04200	.39890	-1.32340	1.24850	-.53030	-.35480	.00000	.64650	.00000	-.35480
.998	113.230	10.20890	.89830	-1.34690	1.19520	-.52920	-.28850	.00000	.64030	.00000	-.28850
.998	111.260	10.34340	1.31670	-1.35220	1.14900	-.53810	-.20730	.00000	.63540	.00000	-.20730
.998	109.340	10.48350	1.81240	-1.32220	1.10730	-.53160	-.12870	.00000	.62960	.00000	-.12870
.998	119.240	9.85070	5.78460	-1.29250	1.47840	-.52630	-.51450	.00000	.66180	.00000	-.51450
GRADIENT		-.11308	-.21889	.01051	.04504	.00224	-.04042	.00000	.07303	.00000	-.04042

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TABULATED SOURCE DATA, NSPC TWT 597

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NSC 507(PAA) TITAN III C SEM (NSRTP)

(R07107) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN XMRP = 4.033C IN.  
LREF = .0000 IN. YMRP = .0000 IN.  
BREF = .0000 IN. ZMRP = .0000 IN.  
SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PRI = 90.000

RUN NO. 357/ 0 RM/L = 0.09 GRADIENT INTERVAL = -5.00/ 5.00

NSC#	ALPHA	CHN	CLNN	CYN	CTNN	CBL	CA	CAB	XCP/L	CP#1	CAF
1.193	129.130	10.06990	2.15680	-1.56080	1.29410	-0.37200	-1.24220	.00000	.62440	.00000	-1.24220
1.193	127.230	10.47720	2.24700	-1.51480	1.29420	-0.39720	-1.14390	.00000	.62430	.00000	-1.14390
1.193	125.180	10.66480	1.93700	-1.60130	1.20300	-0.60710	-1.02900	.00000	.62850	.00000	-1.02900
1.193	123.200	11.20470	2.49130	-1.59700	1.44780	-0.82440	-0.94890	.00000	.62330	.00000	-0.94890
1.193	121.180	11.80450	2.88130	-1.59790	1.56060	-0.64590	-0.85960	.00000	.62010	.00000	-0.85960
1.193	119.170	11.80840	3.04980	-1.66120	1.41450	-0.64610	-0.77890	.00000	.61880	.00000	-0.77890
1.193	117.170	12.10760	3.35450	-1.63870	1.54060	-0.85940	-0.68130	.00000	.61640	.00000	-0.68130
1.193	115.180	12.31380	3.80950	-1.62470	1.55480	-0.87200	-0.60320	.00000	.61240	.00000	-0.60320
1.193	113.190	12.55190	4.16820	-1.64740	1.50340	-0.87810	-0.50680	.00000	.60940	.00000	-0.50680
1.193	111.180	12.89200	4.09350	-1.73920	1.43840	-0.89870	-0.40030	.00000	.61070	.00000	-0.40030
1.193	109.270	12.89690	4.46140	-1.73350	1.44540	-0.70690	-0.31670	.00000	.60770	.00000	-0.31670
1.193	119.200	11.67460	3.13910	-1.59870	1.52930	-0.83320	-0.78260	.00000	.61740	.00000	-0.78260
GRADIENT		-1.4268	-1.3078	.00919	-0.0105	.00634	-0.04371	.00000	.00101	.00000	-0.04371

WSPC 507 (PAA) TITAN III C 9RM (MDETP)

(IN07100) ( 23 APR 74 )

## REFERENCE DATA

JREF = .0300 IN XREF = 4.0330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 BREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 90.000

RUN NO. 346/ 0 RM/L = 0.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUM	CLIM	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
.000	148.370	4.95070	-1.06430	-2.19430	2.15240	-2.6510	-1.34730	.19280	.69400	-.19280	-1.54020
.000	146.370	5.30810	-1.74780	-2.06390	2.02100	-.29480	-1.35010	.23100	.69280	-.23100	-1.53190
.000	144.430	6.16270	-1.80700	-1.89940	3.35500	-.36350	-1.30490	.26730	.69020	-.26730	-1.57220
.000	142.330	6.64720	-1.90380	-1.91350	3.48910	-.38870	-1.25990	.28200	.68870	-.28200	-1.54130
.000	140.190	7.50170	-1.87290	-1.76880	3.98810	-.42650	-1.18490	.27200	.68310	-.27200	-1.45890
.000	138.070	8.14080	-1.82960	-1.70580	3.95830	-.46570	-1.11580	.30260	.67990	-.30260	-1.41850
.000	135.980	8.67700	-1.87080	-1.71780	3.99710	-.49780	-1.06000	.32020	.67880	-.32020	-1.38520
.000	133.920	9.06410	-1.81908	-1.72540	3.99010	-.53190	-.99940	.33390	.67690	-.33390	-1.33330
.000	131.870	9.33090	-1.82100	-1.64750	3.81880	-.54920	-.92600	.34400	.67620	-.34400	-1.27000
.000	129.800	9.79250	-1.65540	-1.62920	3.69340	-.59810	-.85040	.36330	.67300	-.36330	-1.21380
.000	127.830	10.14530	-1.37590	-1.45570	3.78430	-.57660	-.78250	.37230	.66860	-.37230	-1.15490
.000	138.080	8.13210	-1.84120	-1.69980	3.86740	-.48860	-1.11880	.29890	.68010	-.29890	-1.41780
GRADIENT		-.25508	-.01087	-.02920	-.05765	.01540	-.02841	-.00787	.00118	.00787	-.02054

RUN NO. 347/ 0 RM/L = 0.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUM	CLIM	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.193	148.780	6.68000	-.06950	-1.73890	1.57950	-.44540	-1.72210	.42040	.65320	-.42040	-2.19030
1.193	146.030	7.55480	.26480	-1.67520	2.01470	-.49060	-1.72510	.46090	.64690	-.46090	-2.18600
1.193	143.900	7.99820	.54820	-1.62230	2.35520	-.52320	-1.68330	.47390	.64280	-.47390	-2.18320
1.193	141.770	8.59120	.87190	-1.62400	2.56450	-.56210	-1.64300	.41840	.64310	-.41840	-2.18140
1.193	139.650	9.18130	.88680	-1.61330	2.66480	-.59940	-1.57170	.41880	.64200	-.41880	-1.99060
1.193	137.540	9.63440	.74850	-1.73390	2.34870	-.59800	-1.51910	.43910	.64160	-.43910	-1.95830
1.193	135.490	10.11300	.84660	-1.86410	2.02300	-.61380	-1.45040	.44650	.64090	-.44650	-1.89700
1.193	133.390	10.46750	1.05090	-1.91540	2.03350	-.63460	-1.36950	.43940	.63880	-.43940	-1.80690
1.193	131.310	10.83000	1.15180	-1.99960	2.09820	-.66070	-1.28290	.44160	.63800	-.44160	-1.72460
1.193	129.250	11.08720	1.08840	-1.96380	1.77530	-.65360	-1.17680	.42370	.63910	-.42370	-1.50530
1.193	127.280	11.39290	1.17610	-1.96570	1.74500	-.67540	-1.09340	.33300	.63840	-.33300	-1.38690
1.193	137.560	9.63010	.81510	-1.79170	2.39240	-.68210	-1.52040	.43008	.64080	-.43008	-1.95553
GRADIENT		-.22501	-.05485	.01797	.01156	.01039	-.03225	.00282	.00056	-.00282	-.03507



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TABULATED SOURCE DATA, NSFC TWT 587  
NSFC 587 (FAA) TITAN III C SRM (MBETP)

(097106) ( 23 APR 74 )

PARAMETRIC DATA

REFERENCE DATA

REF = .6390 50. IN XMRP = 4.633E IN.  
LREF = .9000 IN. YMRP = .0000 IN.  
SREF = .9000 IN. ZMRP = .0000 IN.  
SCALE = .0074

BETA = .000 PHI = 90.000

RUN NO. 339/ 0 RM/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.933	148.320	5.37540	1.67990	-.96440	-.4240	-.33990	-1.73200	.23000	.61330	-.23000	-1.97070
1.933	148.310	6.03450	1.76140	-1.01030	-.59190	-.37370	-1.71990	.24910	.61450	-.24910	-1.94900
1.933	144.200	6.48870	1.83740	-1.03590	-.62430	-.40860	-1.70960	.24600	.61550	-.24600	-1.93830
1.933	142.030	7.05130	1.83760	-1.09420	-.63790	-.44780	-1.69730	.24920	.61650	-.24920	-1.90870
1.933	139.910	7.54090	1.93510	-1.14790	-.65990	-.47350	-1.61970	.24090	.61900	-.24090	-1.86070
1.933	137.790	8.06000	2.11100	-1.16330	-.62170	-.47780	-1.57450	.23300	.61830	-.23300	-1.80760
1.933	135.690	8.53270	2.32100	-1.17890	-.60840	-.49680	-1.52490	.22590	.61700	-.22590	-1.75020
1.933	133.620	8.93630	2.54490	-1.18750	-.66000	-.50760	-1.45490	.21000	.61540	-.21000	-1.66490
1.933	131.500	9.42430	2.73920	-1.17840	-.73990	-.51990	-1.38860	.20130	.61470	-.20130	-1.59000
1.933	129.370	9.94130	2.86300	-1.21020	-.76530	-.54410	-1.30860	.19250	.61300	-.19250	-1.50110
1.933	127.390	10.29090	2.99000	-1.20950	-.70640	-.54330	-1.22800	.18080	.61320	-.18080	-1.40960
1.933	137.880	7.86330	2.01270	-1.13610	-.50640	-.48290	-1.55320	.22430	.61910	-.22430	-1.77950
GRADIENT		-.22800	-.06391	.01153	-.00985	.00944	-.02395	.00321	-.00000	-.00521	-.02716

RUN NO. 323/ 0 RM/L = 8.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	148.940	4.22110	1.26340	-.44200	-.32020	-.21760	-1.68160	.07490	.61360	-.07490	-1.75610
3.480	146.970	4.84960	1.28930	-.52430	-.31390	-.24100	-1.68830	.07090	.61640	-.07090	-1.73080
3.480	144.890	5.09920	1.21940	-.49720	-.39230	-.28170	-1.64670	.06380	.62120	-.06380	-1.71290
3.480	142.810	5.80700	1.41360	-.52410	-.41560	-.30220	-1.63130	.06310	.61960	-.06310	-1.69450
3.480	140.740	6.10150	1.57280	-.55660	-.42230	-.31720	-1.60610	.06010	.61820	-.06010	-1.66650
3.480	138.660	6.81270	1.73970	-.57650	-.42910	-.33280	-1.58170	.05400	.61600	-.05400	-1.63850
3.480	136.590	7.06650	1.93400	-.60310	-.45930	-.34460	-1.54490	.04950	.61590	-.04950	-1.59350
3.480	134.510	7.51150	2.10970	-.61740	-.47010	-.36230	-1.48890	.04130	.61590	-.04130	-1.53020
3.480	132.460	7.94490	2.34490	-.61980	-.50070	-.38430	-1.41570	.03300	.61410	-.03300	-1.44880
3.480	130.400	8.36700	2.55310	-.64120	-.52190	-.39390	-1.32940	.02390	.61290	-.02390	-1.35340
3.480	128.450	8.78200	2.77030	-.65670	-.57300	-.41340	-1.24420	.01320	.61160	-.01320	-1.25730
3.480	138.690	6.60720	1.79370	-.57690	-.44900	-.34940	-1.58660	.05240	.61820	-.05240	-1.63910
GRADIENT		-.22487	-.07819	.00944	-.01123	.00901	-.02019	.00285	.00024	-.00285	-.02303

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TABULATED SOURCE DATA, NSFC TUT 907

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NSFC 907(744) TITAN III C SRM (MSETP)

(197100) ( 23 APR 74 )

## REFERENCE DATA

REF 0 .0300 IN XMRP = 4.0330 IN.  
 REF 1 .0000 IN. YMRP = .0000 IN.  
 REF 2 .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

DELTA = .005 PSI = 90.000

RUN NO. 322/ 0 RM/L = 4.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CTM	CYMM	CSL	CA	CAB	XCP/L	CPB1	CAF
4.959	149.340	3.70640	1.30140	-.33480	.20030	-.15750	-1.69690	.01720	.60700	-.01720	-1.71380
4.959	147.410	4.10960	1.39870	-.35070	.20060	-.16100	-1.65760	.01470	.60420	-.01470	-1.67280
4.959	145.370	4.69970	1.47560	-.39230	.26910	-.21160	-1.64230	.01140	.61170	-.01140	-1.65380
4.959	143.340	5.18360	1.54120	-.40670	.31850	-.24890	-1.63620	.00660	.61390	-.00660	-1.64290
4.959	141.300	5.66430	1.66480	-.44890	.29290	-.24360	-1.62900	.00240	.61430	-.00240	-1.63140
4.959	139.270	6.17970	1.77680	-.44890	.31940	-.26110	-1.59810	-.00210	.61510	.00210	-1.59600
4.959	137.240	6.60260	1.93470	-.47880	.34710	-.26310	-1.57530	-.00690	.61440	.00690	-1.56830
4.959	135.190	7.11410	2.23100	-.49580	.36360	-.30160	-1.52430	-.01270	.61180	.01270	-1.51160
4.959	133.150	7.34010	2.42180	-.51260	.41390	-.32260	-1.44350	-.01900	.61080	.01900	-1.42430
4.959	131.150	7.96480	2.67300	-.54400	.44280	-.34130	-1.36450	-.02630	.60900	.02630	-1.35800
4.959	129.220	8.39160	2.99440	-.54590	.45580	-.33430	-1.28290	-.03480	.60760	.03480	-1.24800
4.959	127.290	8.15030	1.79360	-.43500	.32770	-.26570	-1.60610	-.00390	.61460	.00390	-1.60220
4.959	GRADIENT	-.23295	-.07864	.01076	-.01129	.00899	-.01646	.60233	.00602	-.00233	-.02102



DATE 11 JUL 74

SIMULATED SOURCE DATA, NSFC TWT 567

PAGE 173

NSFC 507(F44) TITAN III C SRM (HNETP)

(R07100) ( 23 APR 74 )

## REFERENCE DATA

REF = .0300 IN IMP = 4.6330 IN.  
 LREF = .0000 IN. TREF = .0000 IN.  
 REF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 90.000

RUN NO. 348/ 0 RN/L = 0.73 GRADIENT INTERVAL = -5.00/ 5.00

	ALPHA	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.192	189.300	-1.30730	-4.9240	-2.7400	-0.07250	-1.93570	.11300	.61030	-.11300	-1.64580
1.192	167.310	-1.52210	-7.0400	-4.6650	-0.03800	-1.54000	.13360	.79420	-.13360	-1.67360
1.192	165.200	-1.77700	-9.0000	-7.1470	-0.13230	-1.57490	.17010	.76370	-.17010	-1.74500
1.192	163.000	-2.27000	-1.36370	-8.9180	-0.16990	-1.62270	.20300	.74820	-.20300	-1.82580
1.192	160.950	-2.82650	-1.71130	-1.82310	-0.19240	-1.67770	.24060	.72910	-.24060	-1.91840
1.192	158.840	-3.38000	-1.92320	-2.60840	-0.20190	-1.70170	.25910	.70650	-.25910	-1.96990
1.192	156.720	-4.02800	-2.20020	-3.4460	-0.24000	-1.71520	.29060	.69040	-.29060	-2.00590
1.192	154.590	-4.66670	-2.44930	-4.20000	-0.29110	-1.72820	.32370	.67630	-.32370	-2.03000
1.192	152.440	-5.42560	-2.70990	-4.9510	-0.33040	-1.73460	.36600	.66000	-.36600	-2.12150
1.192	150.320	-6.09610	-2.9110	-5.6870	-0.36820	-1.73940	.42370	.64000	-.42370	-2.1720
1.192	148.270	-6.75020	-3.1180	-6.4000	-0.42680	-1.76000	.47330	.60000	-.47330	-2.23420
1.192	150.660	-3.37610	-2.01240	-9.7180	-0.21200	-1.69000	.25640	.70970	-.25640	-1.95450
1.192	GRADIENT	-.27824	.07734	-.06559	.01640	.01161	-.01677	.00782	.01677	.02639

RUN NO. 338/ 0 RN/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

	ALPHA	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.964	169.310	-4.8220	-4.9230	-3.2770	-0.0690	-1.66110	.09160	.73360	-.09160	-1.77280
1.964	167.320	-5.9200	-6.2960	-5.0650	-0.1110	-1.70220	.10840	.70410	-.10840	-1.81370
1.964	165.230	-7.4590	-7.7460	-5.9780	-0.13180	-1.72240	.11790	.68330	-.11790	-1.84040
1.964	163.140	-8.2240	-8.4180	-6.8420	-0.15170	-1.73590	.12970	.66370	-.12970	-1.86560
1.964	161.045	-9.0690	-9.0260	-7.3610	-0.17420	-1.74190	.14440	.65180	-.14440	-1.88930
1.964	158.940	-9.8320	-9.4610	-8.14750	-0.19390	-1.74190	.15890	.64110	-.15890	-1.93030
1.964	156.830	-10.7130	-9.9450	-8.9270	-0.22050	-1.74620	.17310	.63160	-.17310	-1.92740
1.964	154.730	-11.6290	-10.4660	-9.5670	-0.24840	-1.74910	.18770	.62070	-.18770	-1.92680
1.964	152.630	-12.5820	-10.9390	-10.1940	-0.27010	-1.75270	.20240	.60770	-.20240	-1.92510
1.964	150.520	-13.5660	-11.4090	-10.7990	-0.30660	-1.75820	.22250	.61900	-.22250	-1.92560
1.964	148.420	-14.5370	-11.8790	-11.3970	-0.34300	-1.76410	.24390	.61720	-.24390	-1.92620
1.964	150.000	-3.12540	-.39050	-.13970	-0.18770	-1.73990	.14790	.63370	-.14790	-1.88780
1.964	GRADIENT	-.22370	.01616	-.06332	.01173	.00155	.00740	.00527	-.00740	-.00366

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DATE 11 JUL 74

TABULATED SOURCE DATA, MOPC TWT 507

PAGE 174

MOPC 907 (P/A) TITAN III L 13 (MOPETP)

(23 APR 74)

## REFERENCE DATA

5007 = .5300 50. IN XMRP = 4.0330 IN.  
 5007 = .9000 10. IN. YMRP = .0000 IN.  
 5007 = .9000 10. IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PAGINATED DATA

BETA = .500 PMI = 90.000

RUN NO. 324/ 0 RM/L = 0.30 GRADIENT INTERVAL = -5.00/ 5.00

WACR	ALPHA	CNN	CLWN	CTN	CTMN	CBL	CA	CAB	XCP/L	CPBI	CAF
3.400	169.410	.78200	-.16670	-.21500	-.11000	-.04760	-1.09320	.06110	.07920	-.06110	-1.74430
3.400	167.500	.90040	-.09110	-.20410	-.13550	-.10150	-1.09760	.06270	.05000	-.06270	-1.76040
3.400	165.530	1.23000	.09150	-.30070	-.16150	-.06200	-1.70930	.06310	.04210	-.06310	-1.77440
3.400	163.490	1.51470	.24020	-.35500	-.15900	-.09230	-1.70770	.06720	.03070	-.06720	-1.77500
3.400	161.450	1.83320	.47000	-.36610	-.09110	-.11020	-1.71190	.06770	.01900	-.06770	-1.77900
3.400	159.400	2.17730	.69070	-.36410	.01370	-.12090	-1.71970	.05500	.01190	-.05500	-1.77470
3.400	157.350	2.55040	.86700	-.36700	.11702	-.14140	-1.71800	.03300	.00650	-.03300	-1.75200
3.400	155.290	2.94160	1.04010	-.37640	.17240	-.16320	-1.71700	.01520	.00670	-.01520	-1.73310
3.400	153.230	3.33500	1.13400	-.38360	.22100	-.17690	-1.70020	.00250	.00840	-.00250	-1.70270
3.400	151.100	3.74170	1.18000	-.40360	.26950	-.20050	-1.68350	-.01100	.01150	.01100	-1.67220
3.400	149.190	4.17400	1.23950	-.42900	.34100	-.22750	-1.66730	-.02520	.01390	.02520	-1.64210
3.400	147.420	4.63800	.88010	-.36390	.02350	-.12510	-1.71050	.05200	.01290	-.05200	-1.77130
GRADIENT		-.16900	-.07602	.00040	-.02066	.00793	-.00062	.00470	.00299	-.00470	-.00532

RUN NO. 325/ 0 RM/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

WACR	ALPHA	CNN	CLWN	CTN	CTMN	CBL	CA	CAB	XCP/L	CPBI	CAF
4.950	169.500	.56112	-.20720	-.12010	-.00150	-.02550	-1.69700	.01020	.09020	-.01020	-1.67530
4.950	167.600	.70050	-.10670	-.10330	.00500	-.05000	-1.67190	.02050	.08160	-.02050	-1.69250
4.950	165.600	.92430	.00910	-.20090	-.05000	-.03500	-1.66310	.02170	.05020	-.02170	-1.68490
4.950	163.650	1.15020	.10640	-.23790	-.02370	-.07120	-1.66430	.02250	.03070	-.02250	-1.70690
4.950	161.630	1.46320	.44470	-.24000	.00340	-.09000	-1.69010	.02250	.01300	-.02250	-1.71260
4.950	159.610	1.80290	.71590	-.25950	.00940	-.08900	-1.71320	.01970	.00120	-.01970	-1.73490
4.950	157.590	2.17590	.97200	-.24940	.15040	-.09730	-1.70530	.01070	.09400	-.01070	-1.71800
4.950	155.570	2.57200	1.06670	-.26450	.10900	-.12300	-1.70790	-.00350	.09000	.00350	-1.70450
4.950	153.540	2.93450	1.18430	-.26300	.19140	-.07200	-1.67130	-.01770	.06040	.01770	-1.65360
4.950	151.510	3.33900	1.29070	-.29410	.22500	-.14490	-1.65750	-.03400	.00220	.03400	-1.62200
4.950	149.500	3.78000	1.40950	-.30090	.27530	-.16310	-1.65940	-.05000	.00440	.05000	-1.60650
4.950	147.020	4.17020	.70050	-.24350	.01620	-.09200	-1.68630	.01170	.00160	-.01170	-1.69010
GRADIENT		-.16401	-.06940	.00769	-.01612	.00375	.00010	.00330	.00460	-.00330	-.00321



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TABULATED SOURCE DATA, MOPC TWT 507

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MOPC 507 (FAA) TITAN III C SEM (MDETP)

(0907110) ( 25 APR 74 )

## REFERENCE DATA

REF = .0300 IN. INREP = 4.0338 IN.  
 LREF = .0000 IN. YNRP = .0000 IN.  
 BREF = .0000 IN. ZNRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 90.000

RUN NO. 337/ 0 RM/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWV	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.964	190.670	-.93000	1.10530	.12900	-.07050	.16070	-1.99400	.07050	.80040	-.07050	-2.02330
1.964	188.670	-.60890	.94640	.09470	-.10710	.13960	-1.90410	.05100	.83150	-.05100	-1.95310
1.964	185.990	-.43490	.75890	.06390	-.11350	.10400	-1.84430	.03950	.87150	-.03950	-1.87900
1.964	183.930	-.27080	.54990	.03330	-.07500	.07210	-1.81370	.02860	.90850	-.02860	-1.84230
1.964	181.670	-.13420	.28500	.03900	-.05920	.05290	-1.77930	.02400	.90210	-.02400	-1.80590
1.964	179.810	.01800	.00130	.01740	-.01140	.03230	-1.72530	.01760	.84270	-.01760	-1.74770
1.964	177.750	.17440	-.25130	-.03910	.01050	.01060	-1.69610	.01020	.83170	-.01020	-1.70630
1.964	175.600	.37010	-.43640	-.10930	-.01120	-.00930	-1.64740	.01810	.80070	-.01810	-1.68560
1.964	173.620	.59440	-.61660	-.16700	-.02800	-.03490	-1.64400	.02310	.79120	-.02310	-1.66720
1.964	171.550	.79550	-.70030	-.29630	-.11470	-.03560	-1.65430	.03810	.76290	-.03810	-1.69230
1.964	169.370	1.02210	-.70720	-.43780	-.30930	-.05070	-1.68140	.05910	.73420	-.05910	-1.74060
1.964	179.820	.04320	-.03330	-.00360	-.00490	.02540	-1.69940	.01720	.74920	-.01720	-1.71670
GRADIENT		-.09066	.09845	.02453	.00336	.01061	-.01495	.00061	.00501	-.00061	-.01376

RUN NO. 327/ 0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWV	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	189.800	-.69480	.49140	.07330	-.04130	.10910	-1.93620	.09410	.72980	-.09410	-1.99030
3.480	187.930	-.50840	.41580	.03950	-.06790	.07690	-1.88880	.04880	.73900	-.04880	-1.93760
3.480	185.890	-.33200	.34050	.00000	-.07940	.04790	-1.84830	.04220	.78130	-.04220	-1.89050
3.480	183.880	-.20390	.22760	.00990	-.03230	.02950	-1.80400	.03820	.79270	-.03820	-1.84110
3.480	181.840	-.10130	.10130	.00200	.00800	.01170	-1.76030	.03390	.77800	-.03390	-1.79420
3.480	179.810	.02990	-.05450	-.00660	.03450	-.01180	-1.73070	.03290	.91760	-.03290	-1.76320
3.480	177.780	.12600	-.19550	-.03290	.04790	-.01930	-1.69880	.03140	.80760	-.03140	-1.73020
3.480	175.740	.29910	-.29040	-.09640	.03360	-.02790	-1.67680	.03730	.78400	-.03730	-1.71410
3.480	173.710	.37720	-.27740	-.08700	.00840	-.04310	-1.66640	.04490	.74460	-.04490	-1.71140
3.480	171.710	.59020	-.27940	-.14290	-.04390	-.04410	-1.66820	.05270	.71720	-.05270	-1.72090
3.480	169.770	.79550	-.28020	-.19930	-.11090	-.05880	-1.67030	.05200	.68520	-.05200	-1.72760
3.480	179.810	.02040	-.05420	-.00200	.03190	-.00800	-1.73870	.03270	.91110	-.03270	-1.77190
GRADIENT		-.06597	.04036	.01109	-.00121	.00782	-.01385	-.00017	.00212	-.00017	-.01367

NSPC 907 (PA4) TITAN III C 30M (MDETP)

(1897110) (23 APR 74)

## REFERENCE DATA

9027 = .0300 90. IN XMRP = 4.6330 IN.  
 9027 = .0000 IN. YMRP = .0000 IN.  
 9027 = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PMI = 90.000

RUN NO. 326/ 0 RM/L = 4.93 GRADIENT INTERVAL = -9.00/ 9.00

WACH	ALPHA	CMM	CLMM	CYN	CYMM	CBL	CA	CAB	ICP/L	CPB1	CAF
4.939	109.778	-.62138	.27060	.00390	-.00030	.00070	-1.06170	.01940	.70000	-.01940	-1.07720
4.939	107.040	-.49290	.29070	.03410	.04300	.07620	-1.02430	.01920	.73440	-.01920	-1.03960
4.939	101.040	-.20530	.22590	-.00070	.01110	.04100	-1.79030	.01420	.79100	-.01420	-1.90490
4.939	103.040	-.22400	.19400	.04240	.03450	.04720	-1.73690	.01240	.76220	-.01240	-1.74930
4.939	101.038	-.11390	.06600	.00170	.02020	.03310	-1.70840	.01270	.72380	-.01270	-1.72110
4.939	177.000	.00490	-.13070	-.01060	.09400	.01170	-1.67970	.01270	.85020	-.01270	-1.69290
4.939	173.000	.17010	-.22030	-.02230	.05490	-.00060	-1.64230	.01270	.81330	-.01270	-1.63310
4.939	173.700	.31100	-.27120	-.03340	.06170	-.01690	-1.66070	.01320	.76160	-.01320	-1.67390
4.939	171.700	.39390	-.29170	-.07790	.05310	-.03130	-1.61070	.01600	.74920	-.01600	-1.63470
4.939	169.070	.93370	-.22140	-.10590	-.00040	-.01600	-1.62200	.01020	.70400	-.01020	-1.64030
4.939	179.010	.02910	-.07300	.00410	.04100	.02410	-1.70320	.01320	.90100	-.01320	-1.71040
GRADIENT		-.05424	.03941	.00761	-.00110	.00502	-.01194	-.00007	-.00137	.00007	-.01107



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TABULATED SOURCE DATA, NSFC TWT 387

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NSFC 307(74A) TITAN III C SRM (M027P)

( 23 APR 74 )

## REFERENCE DATA

REF = .0385 IN. XMRP = 4.0336 IN.  
 LREF = .0000 IN. YMRP = .0000 IN.  
 ZREF = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 45.000

RUN NO. 353/ 0 RM/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CYMM	CBL	CA	CAB	KCP/L	CPP/L	CAP
.999	109.360	7.37730	.06450	.19150	.22100	.03170	-.02440	.00000	.64010	.00000	-.02440
.999	107.750	7.48300	1.05010	.13410	.27920	.03730	.05480	.00000	.63350	.00000	.03480
.999	105.740	7.56070	1.40320	.04500	.34090	.01440	.13740	.00000	.62660	.00000	.13740
.999	103.730	7.62800	2.00290	-.03610	.30723	.02840	.21750	.00000	.61820	.00000	.21750
.999	101.720	7.67890	2.54090	-.06490	.48030	.05220	.29110	.00000	.60930	.00000	.29110
.999	99.720	7.70900	3.06103	-.12010	.63960	.08920	.34820	.00000	.60120	.00000	.34820
.999	97.710	7.74590	3.49940	-.17000	.79060	.05350	.44830	.00000	.59500	.00000	.44830
.999	95.700	7.78980	3.83230	-.19720	.90260	.03410	.52470	.00000	.58920	.00000	.52470
.999	93.690	7.79630	4.12370	-.16210	.93030	.02440	.58320	.00000	.58420	.00000	.58320
.999	91.670	7.78300	4.40040	-.14840	.80950	.01700	.65500	.00000	.57850	.00000	.65500
.999	89.640	7.76480	4.60360	-.15190	.68270	.03640	.73060	.00000	.57320	.00000	.73060
.999	87.630	7.70430	3.02720	-.11920	.64030	.02560	.34390	.00000	.60180	.00000	.34390
GRADIENT		-.01918	-.21408	.01677	-.03744	.00007	-.03779	.00000	.00344	.00000	-.03779

RUN NO. 352/ 0 RM/L = 6.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CYMM	CBL	CA	CAB	KCP/L	CPP/L	CAP
.999	109.410	9.09290	2.45380	.15280	.30910	.01970	-.12900	.00000	.61730	.00000	-.12900
.999	107.530	9.27330	2.97800	.13030	.42220	.02230	-.05230	.00000	.61090	.00000	-.05230
.999	105.590	9.39990	3.50960	.13340	.49610	.01670	.03110	.00000	.60430	.00000	.03110
.999	103.570	9.48600	3.99940	.15230	.48450	.02140	.12250	.00000	.59610	.00000	.12250
.999	101.580	9.57010	4.45900	.15730	.48030	.01420	.20760	.00000	.59260	.00000	.20760
.999	99.600	9.70570	4.99030	.18220	.51480	.02420	.30320	.00000	.58640	.00000	.30320
.999	97.620	9.78950	5.50070	.17790	.54350	.01930	.38880	.00000	.58040	.00000	.38880
.999	95.640	9.87950	5.96230	.19490	.55450	.03020	.48540	.00000	.57510	.00000	.48540
.999	93.660	9.97500	6.41860	.19460	.59340	.02980	.54440	.00000	.57000	.00000	.54440
.999	91.690	10.10100	7.14280	.22390	.59780	.03150	.49710	.00000	.56270	.00000	.49710
.999	89.720	10.29370	7.82420	.22000	.61980	.02240	.44550	.00000	.55530	.00000	.44550
.999	87.820	9.83720	5.17620	.17900	.56620	.01860	.27790	.00000	.56490	.00000	.27790
GRADIENT		-.03695	-.26373	-.00420	-.01121	-.00032	-.03452	.00000	.00306	.00000	-.03452

HSPC 307(PA4) TITAN III C 98M (HSPC)

(R07117) ( 23 APR 74 )

## REFERENCE DATA

SREF = .0300 IN XIMP = .4.0330 IN.  
 LREF = .0000 IN. YIMP = .0000 IN.  
 SRA = .0000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PM1 = 43.000

RUN NO. 354/ 0 RM/L = 4.99 GRADIENT INTERVAL = -5.00/ 3.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.001	129.450	5.33460	-1.26420	-.23900	.04460	.06650	-.76720	.00000	.66130	.00000	-.76720
.001	127.800	5.60790	-1.27440	-.19900	.03950	.07820	-.70450	.00000	.68020	.00000	-.70450
.001	125.370	5.90080	-1.27530	-.06450	.00530	.06120	-.61970	.00000	.67080	.00000	-.61970
.001	123.350	6.11630	-1.18200	-.01030	-.12950	.06080	-.50260	.00000	.67390	.00000	-.50260
.001	121.320	6.30360	-1.02880	-.03290	-.10890	.06370	-.43970	.00000	.67190	.00000	-.43970
.001	119.320	6.40570	-.84750	-.01260	-.15330	.05690	-.34250	.00000	.66770	.00000	-.34250
.001	117.320	6.47460	-.67300	.00960	-.07980	.04170	-.26710	.00000	.66390	.00000	-.26710
.001	115.300	7.02720	-.45140	.15240	-.01100	.03320	-.17290	.00000	.65960	.00000	-.17290
.001	113.480	7.19730	-.16030	.15910	.00430	.03410	-.08090	.00000	.65430	.00000	-.08090
.001	111.499	7.40680	.20070	.17030	.19260	.03350	.02070	.00000	.64890	.00000	.02070
.001	109.630	7.47250	.52810	.18440	.19450	.04590	.11010	.00000	.64250	.00000	.11010
.001	119.340	6.99570	-.84700	-.01160	-.18560	.04810	-.35360	.00000	.66770	.00000	-.35360
GRADIENT		-.10959	-.09105	-.02134	-.00661	.00175	-.04478	.00000	.00199	.00000	-.04478

RUN NO. 355/ 0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 3.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.006	129.240	6.07100	-1.77460	.26640	-.07780	.05010	-.85940	.00000	.66310	.00000	-.85940
.006	127.330	7.01840	-1.66190	.23850	-.05740	.05250	-.78020	.00000	.68180	.00000	-.78020
.006	125.300	7.34740	-1.51010	.19100	.01360	.05010	-.70610	.00000	.67750	.00000	-.70610
.006	123.320	7.67510	-1.27000	.19100	-.02040	.04610	-.61040	.00000	.67240	.00000	-.61040
.006	121.320	7.95690	-.93240	.12410	.06630	.03170	-.52810	.00000	.66660	.00000	-.52810
.006	119.300	8.28260	-.41460	.07810	.22740	.01590	-.46160	.00000	.65780	.00000	-.46160
.006	117.300	8.52880	.17180	.09010	.31350	.02280	-.39150	.00000	.64890	.00000	-.39150
.006	115.300	8.68310	.73260	.10410	.40870	.02950	-.30980	.00000	.64080	.00000	-.30980
.006	113.330	8.89490	1.34930	.12450	.42300	.03480	-.24510	.00000	.63230	.00000	-.24510
.006	111.350	9.13050	1.93360	.13350	.42540	.03820	-.16650	.00000	.62470	.00000	-.16650
.006	109.480	9.28700	2.41660	.14090	.41740	.04560	-.07470	.00000	.61850	.00000	-.07470
.006	119.320	8.38410	-.29830	.07350	.25400	.02260	-.46190	.00000	.65600	.00000	-.46190
GRADIENT		-.13102	-.22446	.00460	-.03085	.00081	-.03675	.00000	.00356	.00000	-.03675



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(097117) ( 23 APR 74 )

TABULATED SOURCE DATA, NSFC TWT 587  
NSFC 987(744) TITAN III C 3EN (MDETP)

PARAMETRIC DATA

BEYA = .000 PHI = 43.000

REFERENCE DATA

SIZE = .6300 IN INKP = 4.6330 IN.  
LEEF = .9000 IN. YMEP = .0000 IN.  
SIZE = .9000 IN. ZMEP = .0000 IN.  
SCALE = .0074

RUN NO. 396/ 0 RM/L = 0.00 GRADIENT INTERVAL = -3.00/ 5.00

INCH	ALPHA	CMH	CLIN	CYN	CYN	CEL	CA	CAB	KCP/L	CPH	CAF
1.197	129.210	9.58700	2.21650	.22710	.03700	.06460	-1.17760	.00000	.61690	.00000	-1.17760
1.197	127.320	9.59110	2.45590	.23490	.09950	.06340	-1.09610	.00000	.61690	.00000	-1.09610
1.197	123.300	9.40010	2.67260	.23400	.19350	.05310	-1.01010	.00000	.61350	.00000	-1.01010
1.197	123.300	9.72520	2.94740	.24810	.20320	.04710	-.92560	.00000	.61310	.00000	-.92560
1.197	121.290	10.11290	3.25990	.24970	.30890	.04090	-.84310	.00000	.61070	.00000	-.84310
1.197	119.280	10.47110	3.52620	.25100	.33010	.04070	-.75740	.00000	.60690	.00000	-.75740
1.197	117.260	10.73940	3.71520	.23900	.36450	.03720	-.66510	.00000	.60760	.00000	-.66510
1.197	115.270	10.98960	3.89690	.23590	.45000	.01790	-.57060	.00000	.60660	.00000	-.57060
1.197	113.280	11.25120	4.20560	.23510	.50290	.02290	-.48490	.00000	.60340	.00000	-.48490
1.197	111.280	11.44190	4.76790	.23690	.55160	.02480	-.40750	.00000	.59670	.00000	-.40750
1.197	109.250	11.67490	5.25490	.23050	.56300	.02470	-.36700	.00000	.59470	.00000	-.36700
1.197	119.310	10.46030	3.53350	.24230	.32310	.03460	-.75630	.00000	.60690	.00000	-.75630
GRADIENT		-.10010	-.07169	-.00032	-.01705	.00174	-.02697	.00000	.00052	.00000	-.02697

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TABULATED SOURCE DATA, NSFC TWT 567

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NSFC 567 (744) TITAN III C SHM (INDETP)

(197110) ( 23 APR 74 )

## REFERENCE DATA

0027 = .0340 IN ZMRP = 4.0350 IN.  
 0027 = .0000 IN. ZMRP = .0000 IN.  
 0027 = .0000 IN. ZMRP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000  
 PHI = 45.000

RUN NO. 351/ 0 RM/L = 0.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CW	CLW	CTN	CTW	CBL	CA	CAB	KCP/L	CPB1	CAF
.000	140.910	3.29080	-1.19250	.90843	.33540	.04300	-1.20080	.06740	.69750	-.00740	-1.29030
.000	140.950	3.71130	-1.34940	1.05200	-.05200	.00060	-1.20480	.09440	.69750	-.09440	-1.29330
.000	144.800	4.23420	-1.30940	1.09440	-.06130	.11550	-1.20810	.13720	.69000	-.13720	-1.34940
.000	142.720	4.04010	-1.26450	.94450	-1.21470	.15830	-1.16920	.17410	.68450	-.17410	-1.30940
.000	140.020	5.37610	-1.32700	.33970	-1.31290	.18920	-1.15440	.19250	.68270	-.19250	-1.34940
.000	139.540	5.74090	-1.46160	.90380	-1.14980	.16820	-1.09240	.19370	.68370	-.19370	-1.20810
.000	138.450	6.20330	-1.59640	.94860	-.87400	.17230	-1.04630	.20690	.68360	-.20690	-1.25330
.000	134.360	8.34220	-1.90450	.90990	-.45330	.15200	-.95960	.20900	.68780	-.20900	-1.16360
.000	132.240	7.17290	-2.12300	.77560	-.32840	.14150	-.80210	.22310	.68890	-.22310	-1.10320
.000	130.160	7.00570	-2.14840	.71470	-.27040	.14130	-.79910	.23900	.68720	-.23900	-1.03810
.000	129.160	8.03130	-2.00990	.80430	-.18890	.13600	-.71910	.25580	.68440	-.25580	-.97490
.000	139.500	9.90310	-1.71450	.96740	-.95310	.17690	-1.08960	.19050	.68820	-.19050	-1.20010
GRADIENT		-.22898	.05083	.01656	.00222	-.00300	-.02445	-.00767	.00045	.00767	-.01679

RUN NO. 350/ 0 RM/L = 0.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CW	CLW	CTN	CTW	CBL	CA	CAB	KCP/L	CPB1	CAF
1.104	140.450	4.02620	-.41860	.36180	.71730	.04360	-1.59530	.23480	.68220	-.23480	-1.03020
1.104	146.450	5.46948	-.20260	.27060	.40830	.03240	-1.59860	.24350	.65820	-.24350	-1.03210
1.104	144.330	6.03368	.02590	.18890	-.04160	-.01900	-1.58920	.23750	.65090	-.23750	-1.00250
1.104	142.210	6.03990	.41170	.25730	.02180	.05580	-1.55790	.26670	.64360	-.26670	-1.02470
1.104	140.120	7.22960	.72700	.29890	.21860	.03950	-1.50690	.27500	.63870	-.27500	-1.78190
1.104	137.990	7.76680	1.00660	.33170	.15510	.02510	-1.43110	.27200	.63510	-.27200	-1.70320
1.104	135.880	8.34030	1.28980	.34570	.14380	.01370	-1.37920	.32290	.63220	-.32290	-1.70220
1.104	133.790	8.61020	1.44700	.28090	.01230	.00720	-1.31030	.33770	.63070	-.33770	-1.64810
1.104	131.700	9.18030	1.36500	.26950	.00680	.00540	-1.23040	.33040	.63270	-.33040	-1.58090
1.104	129.620	9.51370	1.35520	.26150	-.00200	.01510	-1.13600	.30340	.63340	-.30340	-1.45940
1.104	127.620	9.80040	1.44480	.25070	.02230	.01840	-1.04880	.26760	.63280	-.26760	-1.31640
1.104	130.010	7.70730	1.05880	.32510	.15860	.02190	-1.42660	.27320	.63430	-.27320	-1.69980
GRADIENT		-.24075	-.09636	.00146	.02193	.00104	-.02676	-.00380	.00141	.00380	-.02296



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TABULATED SOURCE DATA, NSFC TWT 307

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NSFC 307 (744) TITAN III C SRM (INDETP)

(007110) ( 23 APR 74 )

## REFERENCE DATA

REF = .0310 IN XREF = 4.0330 IN.  
 LREF = .0000 IN. YREF = .0000 IN.  
 BREF = .0000 IN. ZREF = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PMI = 49.000

RUN NO. 334/ 0 RM/L = 0.91 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CHW	CLWH	CTW	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.959	140.510	4.09310	1.99090	.00200	.30310	-.01200	-1.70920	.23100	.59900	-.23100	-1.94090
1.959	140.510	5.33760	2.10910	.03310	.29330	-.01260	-1.09170	.25910	.59900	-.25910	-1.92090
1.959	144.470	5.00500	2.40020	.01370	.13070	-.01210	-1.06700	.23550	.59910	-.23550	-1.90200
1.959	142.350	6.20050	2.64490	.02270	.07600	-.00500	-1.03490	.23840	.59820	-.23840	-1.87500
1.959	140.220	6.70290	2.86810	.03430	.06120	-.00330	-1.58590	.23340	.59700	-.23340	-1.81930
1.959	130.110	7.21010	3.09010	.03720	.09020	.00400	-1.54040	.22800	.59720	-.22800	-1.76940
1.959	130.020	7.63900	3.28330	.04000	.10140	.01150	-1.48160	.22590	.59710	-.22590	-1.70750
1.959	133.000	8.0720	3.46700	.05670	.10110	.00350	-1.42090	.22200	.59710	-.22200	-1.64350
1.959	131.000	8.47040	3.67890	.07250	.10940	.00660	-1.35040	.21270	.59650	-.21270	-1.56320
1.959	129.090	8.92700	3.84310	.08600	.13300	.00070	-1.28090	.20140	.59700	-.20140	-1.48250
1.959	127.700	9.19700	4.03000	.09530	.13620	.00460	-1.19370	.19320	.59590	-.19320	-1.39700
1.959	130.100	7.10600	3.12250	.04110	.09950	.00350	-1.53620	.22240	.59590	-.22240	-1.75070
GRADIENT		-.21014	-.09073	-.00277	.00601	-.00096	-.02478	.00179	.00018	-.00179	-.02637

RUN NO. 332/ 0 RM/L = 0.40 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CHW	CLWH	CTW	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	149.040	3.00060	1.00040	-.02760	.13740	.01240	-1.00070	.06670	.59240	-.06670	-1.74940
3.400	147.100	4.24300	1.94300	-.00840	.13190	.01500	-1.67420	.06720	.59350	-.06720	-1.74150
3.400	145.090	4.65090	2.15410	-.00620	.06160	.01900	-1.07020	.06540	.59290	-.06540	-1.73570
3.400	143.000	5.05900	2.32400	.03020	.06630	.03110	-1.62440	.06300	.59350	-.06300	-1.68020
3.400	140.510	5.50700	2.50150	.04250	.07030	.02260	-1.59390	.06200	.59400	-.06200	-1.65590
3.400	130.030	5.95520	2.74090	.04150	.04730	.02790	-1.53840	.06000	.59310	-.06000	-1.59040
3.400	130.770	6.39120	2.95990	.03950	.07000	.00970	-1.50370	.05730	.59290	-.05730	-1.56100
3.400	134.070	6.81120	3.20320	.03130	.07950	.00550	-1.44850	.05170	.59190	-.05170	-1.50020
3.400	132.010	7.23520	3.43940	.03560	.09900	.00200	-1.36210	.04490	.59130	-.04490	-1.42700
3.400	130.350	7.65640	3.71300	.04000	.09360	-.00110	-1.30040	.03730	.59010	-.03730	-1.33770
3.400	128.060	8.02310	3.93100	.04400	.12190	-.00440	-1.22870	.02840	.58950	-.02840	-1.23720
3.400	130.050	5.95070	2.74070	.04800	.04990	.00690	-1.55160	.06130	.59310	-.06130	-1.61300
GRADIENT		-.20595	-.10520	-.00301	.00063	.00110	-.02237	.00102	.00016	-.00102	-.02410



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TABULATED SOURCE DATA, HUPC TUT 507

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HUPC 907 (744) TITAN III C 3RM (H02ETP)

(R07310) ( 23 APR 74 )

## REFERENCE DATA

B027 = .0300 IN ZIMP = 4.6330 IN.  
 L027 = .0000 IN. YIMP = .0000 IN.  
 B027 = .0000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 45.000

RUN NO. 333/ 0 RM/L = 3.01 GRADIENT INTERVAL = -3.00/ 3.00

NACH	ALPHA	CMH	CLMH	CTH	CYMH	CBL	CA	CAB	SCP/L	CPH1	CAF
4.939	169.300	3.44890	1.94400	-.04190	.15500	.03170	-1.70610	.01240	.37990	-.01240	-1.72040
4.939	167.430	3.64590	1.96690	-.02590	.16870	.02830	-1.70860	.01000	.38570	-.01000	-1.71780
4.939	145.400	4.23790	2.13760	-.06760	.07400	.04330	-1.69000	.00790	.38760	-.00790	-1.69790
4.939	123.440	4.66880	2.30030	-.01040	.07370	.06670	-1.63460	.00460	.38910	-.00460	-1.63930
4.939	141.390	5.00070	2.46260	-.11030	.00160	.05890	-1.62340	.00190	.38970	-.00190	-1.62530
4.939	139.340	5.50170	2.67910	-.01120	.05200	.05980	-1.59150	-.00130	.39070	.00130	-1.59020
4.939	137.310	5.93590	2.90470	.03030	.05760	.04970	-1.54290	-.07560	.39570	.00560	-1.53730
4.939	135.240	6.41680	3.20760	.06980	.10860	.03170	-1.46420	-.00870	.39820	.00870	-1.45550
4.939	133.220	6.83930	3.45500	.04030	.06050	.04470	-1.40730	-.01190	.39730	.01190	-1.39530
4.939	131.190	7.26370	3.70700	.02340	.06740	.11360	-1.33300	-.01750	.38690	.01750	-1.31550
4.939	129.310	7.63530	3.90050	.02100	.12330	.04210	-1.25500	-.02300	.38680	.02300	-1.23120
4.939	139.300	5.98570	2.74350	.03140	.04480	.05110	-1.57590	-.00590	.38930	.00590	-1.57000
4.939	GRADIENT	-.21030	-.10304	-.00512	.00202	-.00146	-.02270	.00174	-.00015	-.00174	-.02453



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TABULATED SOURCE DATA, NSPC TWT 307

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NSPC 307(744) TITAN III C 32M (HNETP)

(IN97110) ( 23 APR 74 )

## REFERENCE DATA

SHEP = .0300 80. IN XREP = 4.0330 IN.  
 LREP = .0000 IN. YREP = .0000 IN.  
 ZREP = .0000 IN. ZREP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 FMI = 49.000

RUN NO. 349/ 0 RM/L = 6.60 GRADIENT INTERVAL = -3.00/ 5.00

WACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.200	109.430	.04940	-.94130	.04230	.00630	.02360	-1.35000	.10220	.03610	-.10220	-1.73310
1.202	107.478	.04350	-1.11070	.01920	-.00350	.03340	-1.54050	.20430	.01610	-.20430	-1.73290
1.204	105.410	1.10440	-1.21040	-.03470	-.20250	.03400	-1.55120	.21000	.79020	-.21000	-1.76190
1.206	103.390	1.41420	-1.36050	-.14710	-.23970	.06070	-1.55970	.21400	.77390	-.21400	-1.77080
1.208	101.230	1.74550	-1.49950	-.17610	-.22260	.07160	-1.56440	.21820	.75890	-.21820	-1.78280
1.210	100.120	2.10620	-1.55360	-.07540	.01210	.07570	-1.57340	.22030	.74220	-.22030	-1.79370
1.212	107.010	2.67200	-1.45120	.10270	.02300	.03260	-1.63410	.26710	.70100	-.26710	-1.83190
1.214	104.900	3.21700	-1.28030	.33390	1.23460	.03430	-1.61430	.23980	.69830	-.23980	-1.83420
1.216	102.790	3.75990	-1.09410	.59120	.97520	.03930	-1.60190	.23530	.67490	-.23530	-1.83720
1.218	100.600	4.32800	-.80100	.50540	.52690	.04200	-1.60450	.26690	.66200	-.26690	-1.87190
1.220	148.650	4.92720	-.44250	.41100	.03530	.07400	-1.55220	.19360	.74030	-.19360	-1.74590
1.200	199.130	2.19910	-1.54320	-.09750	-.03460	.07400	-1.55220	.19360	.74030	-.19360	-1.74590
GRADIENT	-.20611	-.01691	-.03045	-.03459	-.00044	.00390	-.00333	.00333	.00630	.00333	.00712

RUN NO. 355/ 0 RM/L = 6.56 GRADIENT INTERVAL = -3.00/ 5.00

WACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.956	109.390	.71990	-.63750	-.09470	-.10230	.01690	-1.71500	.09370	.76330	-.09370	-1.87930
1.958	107.430	.97700	-.61200	-.11830	-.25720	.02460	-1.69450	.10450	.73080	-.10450	-1.90100
1.959	105.350	1.31630	-.49420	-.15090	-.33710	.02760	-1.69540	.12090	.69900	-.12090	-1.91640
1.956	103.280	1.70270	-.22320	-.18730	-.37310	.02860	-1.69120	.13950	.66810	-.13950	-1.93070
1.958	101.220	2.10770	-.60340	-.12990	-.13980	.02490	-1.69480	.14540	.65170	-.14540	-1.94020
1.956	109.110	2.53780	.30090	-.02530	.22770	.02730	-1.70480	.16500	.63650	-.16500	-1.86990
1.958	107.010	3.01640	.57810	-.02820	.36080	.00150	-1.72480	.16420	.62720	-.16420	-1.90590
1.956	104.910	3.47960	.61400	-.00640	.30070	-.01140	-1.73590	.16700	.62100	-.16700	-1.92290
1.958	102.800	3.94390	1.17670	.04860	.45170	-.00560	-1.72170	.19140	.61370	-.19140	-1.91320
1.956	100.720	4.46530	1.57280	.07800	.99020	-.01730	-1.71090	.19060	.60690	-.19060	-1.90130
1.958	148.720	4.94740	1.64490	.05690	.41260	-.02200	-1.71020	.16890	.60330	-.16890	-1.87920
1.956	199.140	2.55050	.36930	-.00960	.25150	.02470	-1.68920	.16890	.63310	-.16890	-1.83020
GRADIENT	-.20732	-.12687	-.01142	-.04542	-.00240	.00104	-.00462	.00462	.00728	.00462	.00566

HSPC 307(744) TITAN III C SRM (HSPC)

(897119) ( 23 APR 74 )

## REFERENCE DATA

3027 = .0300 IN. XIMP = 4.4330 IN.  
 3027 = .0000 IN. XIMP = .0000 IN.  
 3027 = .0000 IN. XIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PMI = 43.000

RUN NO. 331/ 0 RM/L = 0.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	109.330	.50000	-.14440	-.00000	-.02100	-.00010	-1.60000	.03590	.60300	-.03590	-1.74540
3.400	107.020	.79670	.00910	-.00100	-.03440	.01930	-1.60000	.03970	.65000	-.03970	-1.74000
3.400	105.030	1.04300	.10200	-.03000	.00250	.01100	-1.60470	.06110	.62000	-.06110	-1.74590
3.400	103.300	1.20440	.37090	-.03610	.00370	.01900	-1.67590	.06400	.61300	-.06400	-1.73990
3.400	101.520	1.37000	.60120	-.02010	.11020	.01310	-1.67200	.06740	.60330	-.06740	-1.74000
3.400	100.000	1.50900	.84490	-.01750	.10070	.01410	-1.67240	.06840	.59350	-.06840	-1.74000
3.400	107.410	2.26720	1.05000	-.01200	.10500	.00470	-1.66900	.05900	.59240	-.05900	-1.72000
3.400	105.310	2.04950	1.22900	-.01410	.21320	.00840	-1.66950	.04830	.59270	-.04830	-1.71700
3.400	103.260	3.03220	1.44120	-.00770	.10660	.01300	-1.66460	.03240	.59130	-.03240	-1.69710
3.400	101.200	3.40210	1.59100	-.00700	.15020	.00300	-1.67090	.01020	.59230	-.01020	-1.68910
3.400	109.290	3.76190	1.70410	-.01090	.14520	.01460	-1.66240	.00610	.59210	-.00610	-1.68030
3.400	107.470	1.91090	.77500	-.00970	.17040	.00770	-1.66960	.06770	.60010	-.06770	-1.73730
GRADIENT		-.15900	-.09604	-.00426	-.01090	.00007	-.00128	.00241	.00376	-.00241	-.00360

RUN NO. 330/ 0 RM/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	109.000	.41820	-.16330	-.00390	.04730	.03510	-1.60040	.01950	.70740	-.01950	-1.69590
4.939	107.090	.56170	-.04900	-.00900	.06100	.02320	-1.60060	.01770	.66250	-.01770	-1.69040
4.939	105.740	.76100	.11720	-.00290	.06700	.04040	-1.60010	.01090	.63200	-.01090	-1.69000
4.939	103.710	.90290	.30200	-.04200	.00000	.03490	-1.66400	.02020	.60530	-.02020	-1.69310
4.939	101.070	1.27730	.60530	-.04300	.00690	.03200	-1.67910	.02020	.59550	-.02020	-1.69930
4.939	109.040	1.61000	.90700	-.04900	.12900	.04010	-1.67030	.02050	.57500	-.02050	-1.69000
4.939	107.010	1.93000	1.17400	-.00350	.11970	.04900	-1.60000	.01900	.57500	-.01900	-1.69900
4.939	105.930	2.33240	1.33000	-.03000	.17790	.03440	-1.69240	.01320	.57800	-.01320	-1.70570
4.939	103.520	2.69950	1.40010	-.03320	.10070	.10090	-1.67920	.00260	.59550	-.00260	-1.60100
4.939	101.500	3.07320	1.59950	-.03940	.10090	.02490	-1.67600	-.01090	.59360	-.01090	-1.60390
4.939	109.010	3.50150	1.70900	-.02470	.14090	.03200	-1.69000	-.02300	.59000	-.02300	-1.67990
4.939	107.050	1.70490	.90170	-.04900	.14310	.01300	-1.69000	.01340	.57800	-.01340	-1.70110
GRADIENT		-.15923	-.10202	-.00291	-.00716	-.00127	.00053	.00167	.00500	-.00167	-.00113



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TABULATED SOURCE DATA, NSFC TUT 387

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NSFC 587(F44) TITAN III C SRM (MRETP)

(R07120) ( 23 APR 74 )

## REFERENCE DATA

REF = .6500 IN XREF = 4.6330 IN.  
 LREF = .9000 IN. YREF = .0900 IN.  
 SREF = .9000 IN. ZREF = .0500 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 45.000

RUN NO. 336/ 0 RM/L = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAP
1.939	189.900	-.76480	-.01670	-.04130	-.17110	-.04430	-1.92280	-.07200	.70660	-.07250	-1.99470
1.939	187.900	-.58030	-.73200	-.03530	-.12940	-.04340	-1.07360	-.02600	.81680	-.04400	-1.92370
1.939	183.920	-.38070	-.59490	-.03670	-.07420	-.02930	-1.83100	-.04030	.84920	-.04070	-1.87170
1.939	183.900	-.24270	-.44750	-.04130	-.03580	-.02110	-1.81350	-.03060	.86750	-.04750	-1.84410
1.939	181.880	-.09900	-.25880	-.03550	-.02870	-.01490	-1.77190	-.02270	.87830	-.02270	-1.79470
1.939	179.820	-.00280	-.05910	-.02920	-.00760	-.01420	-1.73770	-.03030	-.1.97470	-.03050	-1.76830
1.939	177.770	-.11940	-.17880	-.03990	-.00070	-.01050	-1.70220	-.02710	.84100	-.02710	-1.72940
1.939	175.740	-.24310	-.36040	-.03620	-.03260	-.01570	-1.66890	-.03860	-.03760	-.03860	-1.70760
1.939	173.710	-.37620	-.53350	-.03210	-.08970	-.01760	-1.63620	-.03600	.83000	-.05860	-1.72500
1.939	171.650	-.53040	-.61410	-.11030	-.14250	-.02030	-1.6070	-.07620	.79800	-.07620	-1.74530
1.939	169.770	-.71860	-.63880	-.10290	-.19890	-.04310	-1.53440	-.09800	.76390	-.09800	-1.78040
1.939	179.630	-.01830	-.01900	-.00460	-.00320	-.01310	-1.70070	-.03290	.77820	-.03290	-1.73360
GRADIENT		-.06838	-.08124	-.00932	-.00074	-.00085	-.01237	-.05124	.00217	.00124	-.01162

RUN NO. 328/ 0 RM/L = 6.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAP
3.400	189.940	-.63870	-.23220	-.00840	-.00020	-.02600	-1.88000	-.05170	-.89890	-.05170	-1.93170
3.400	187.290	-.44810	-.29810	-.01490	-.00410	-.03770	-1.84820	-.04980	.73510	-.04980	-1.89410
3.400	185.800	-.29610	-.23070	-.02060	-.01310	-.05150	-1.81010	-.03780	.75880	-.03780	-1.84790
3.400	183.850	-.18380	-.15150	-.01240	-.02840	-.00980	-1.77100	-.03170	.76640	-.03170	-1.80270
3.400	181.830	-.06470	-.14820	-.01160	-.01490	-.02210	-1.74380	-.02790	.84130	-.02790	-1.77170
3.400	179.810	-.02450	-.00030	-.01600	-.03190	-.01420	-1.71990	-.03050	.84960	-.03050	-1.75030
3.400	177.730	-.09930	-.07220	-.03390	-.02850	-.01340	-1.69880	-.03430	.74340	-.03430	-1.73320
3.400	175.730	-.16250	-.11340	-.01490	-.02750	-.00350	-1.69360	-.03090	.76250	-.03090	-1.73260
3.400	173.730	-.31430	-.21230	-.06230	-.00490	-.00870	-1.69220	-.04390	.73700	-.04390	-1.73810
3.400	171.730	-.42930	-.20860	-.06110	-.02430	-.00620	-1.68940	-.05020	.71300	-.05020	-1.73970
3.400	169.900	-.55490	-.15130	-.06740	-.03590	-.00680	-1.68690	-.05330	.68370	-.05330	-1.75950
3.400	179.830	-.01170	-.00820	-.02250	-.04120	-.00860	-1.72890	-.03040	.71900	-.03040	-1.75980
GRADIENT		-.05369	-.02810	-.00313	-.00132	-.00201	-.00974	-.00029	.00196	.00029	-.00944

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 11 JUN 74

TRANSLATED SOURCE DATA, NSFC TWT 307

PAGE 100

NSFC 307(744) TWT-N 111 C 30M (MODE10)

(0207100) ( 23 APR 74 )

## REFERENCE DATA

ZREF = .0300 30. IN ZIMP = 4.0330 IN.  
 LREF = .0000 IN. YIMP = .0000 IN.  
 XREF = .0000 IN. ZIMP = .0000 IN.  
 SCALE = .0074

## PARAMETRIC DATA

BETA = .000 PHI = 45.000

RUN NO. 329/ 0 RM/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CW	CLMM	CTN	CYMM	CBL	CA	CAB	SCP/L	CPH	CAF
4.939	189.840	-.37850	.20380	-.01800	.00360	-.01540	-1.03990	.01370	.09070	-.01370	-1.07300
4.939	187.930	-.40300	.22050	-.04400	-.0150	.02350	-1.70140	.01270	.72260	-.01270	-1.00410
4.939	185.900	-.26840	.22450	-.04490	.04090	-.00990	-1.70920	.01170	.75000	-.01170	-1.70000
4.939	183.880	-.23230	.10250	-.04370	.10920	.01770	-1.74160	.01040	.74000	-.01040	-1.75210
4.939	181.050	-.14840	.11210	-.04290	.04830	.02360	-1.72090	.00970	.74040	-.00970	-1.73000
4.939	179.010	-.00300	-.03110	-.05490	.06910	-.02670	-1.70260	.01090	-.44210	-.01090	-1.71300
4.939	177.810	.05350	-.04310	-.03990	.00360	.02320	-1.00170	.01070	.00070	-.01070	-1.09200
4.939	175.700	.13810	-.14490	-.06450	.04810	-.02370	-1.00190	.01140	.78430	-.01140	-1.09340
4.939	173.720	.19300	-.20840	-.06340	.04000	-.01310	-1.00100	.00990	.78670	-.00990	-1.07170
4.939	171.750	.30700	-.21210	-.07950	.05360	-.01330	-1.07260	.01190	.73070	-.01190	-1.06450
4.939	169.820	.41900	-.09140	-.08140	.05670	.00320	-1.00350	.01550	.07910	-.01550	-1.00100
4.939	179.840	-.00230	.00100	-.04190	.10660	-.03900	-1.71450	.01070	.75170	-.01070	-1.72320
GRADIENT	-.04594		.02406	.00231	.00070	-.00102	-.00870	-.00001	-.00099	.00001	-.00000